

# Checklist of the Monogenea (Platyhelminthes) parasitic in Mexican aquatic vertebrates

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## ABSTRACT

313 nominal species of monogenean parasites of aquatic vertebrates occurring in Mexico are included in this checklist; in addition, records of 54 undetermined taxa are also listed. All the monogeneans registered are associated with 363 vertebrate host taxa, and distributed in 498 localities pertaining to 29 of the 32 states of the Mexican Republic. The checklist contains updated information on their hosts, habitat, and distributional records. We revise the species list according to current schemes of classification for the group. The checklist also included the published records in the last 11 years, since the latest list was made in 2006. We also included taxon mentioned in thesis and informal literature. As a result of our review, numerous records presented in the list published in 2006 were modified since inaccuracies and incomplete data were identified. Even though the inventory of the monogenean fauna occurring in Mexican vertebrates is far from complete, the data contained in our checklist depict the actual knowledge about this group of flatworms in Mexico.

## KEY WORDS

Platyhelminthes,  
Mexico,  
distribution,  
Actinopterygii,  
Elasmobranchii,  
Anura,  
Testudines.

## RÉSUMÉ

*Liste annotée des Monogenea (Platyhelminthes) parasites des vertébrés aquatiques mexicains.*

Une liste annotée des 313 espèces nominales de parasites monogènes de vertébrés aquatiques du Mexique est présentée; 54 taxons indéterminés sont également répertoriés. Tous les monogènes cités sont associés à 363 taxons de vertébrés hôtes, et sont originaires de 498 localités représentant 29 des 32 états de la République mexicaine; des informations révisées sur les hôtes, l'habitat et les distributions sont proposées. La liste des espèces a été révisée en fonction des patrons actuels de classification du groupe. La liste annotée comprend également les signalisations publiées au cours des 11 dernières années, puisque la dernière liste datait de 2006. Nous avons également inclus les taxons mentionnés dans les thèses et la littérature grise. Suite à notre revue, de nombreuses signalisations ont été modifiées, car des inexactitudes et des données incomplètes ont été identifiées dans la liste publiée en 2006. Même si l'inventaire de la faune monogénique des vertébrés mexicains est loin d'être complet, les données contenues dans notre liste annotée représentent les connaissances réelles sur ce groupe de vers plats au Mexique.

## MOTS CLÉ

Platyhelminthes,  
Mexique,  
distribution,  
Actinopterygii,  
Elasmobranchii,  
Anura,  
Testudines.

## INTRODUCTION

The Platyhelminthes are the most species-rich group of helminth parasites of wildlife vertebrates in Mexico (Pérez-Ponce de León *et al.* 2011). According to García-Prieto *et al.* (2014), within these parasitic flatworms, Monogenea is the second more species-rich class in Mexico, after the Trematoda. The first species of monogeneans described in Mexico were *Axine yamagutii* (Meserve, 1938), *Mexicotyle mexicana* (Meserve, 1938), *Neobenedenia adenea* (Meserve, 1938), *Neobenedenia isabellae* (Meserve, 1938), and *Neopolystoma domitilae* (Caballero, 1938) (see Caballero 1938; Meserve 1938). Monogeneans represent one of the groups of helminth parasites that have been studied continuously in Mexico for over 80 years, although the knowledge about the diversity of the groups still remains fragmentary. Several attempts have been made in the past to quantify the species richness of these worms as parasites of Mexican aquatic vertebrates (see Lamothe-Argumedo & Jaimes-Cruz 1982; Flores-Crespo & Flores-Crespo 2003; Kohn *et al.* 2006). A decade ago, Kohn *et al.* (2006) listed a total of “210 species from Mexico” (actually, 196 taxa). However, a detailed review of that checklist in relation to Mexican records and its comparison with the information contained in the database of the Colección Nacional de Helmintos (CNHE), revealed some discrepancies (e.g., omission of information, duplication of species records, lack of nomenclature updating, mistaken records, etc.). Due to the aforementioned discrepancies, and the fact that the last decade witnessed an important increase in the number of studies on monogeneans, in this paper we present the most up-to-date checklist of the monogenean parasites of aquatic vertebrates of Mexico with the aims of: 1) partially revisit the checklist published by Kohn *et al.* (2006), adding, modifying, and updating the information presented by these authors for Mexican species; and 2) depict the actual knowledge about this group of flatworms in Mexico.

## MATERIAL AND METHODS

The present list of monogenean species of Mexican aquatic vertebrates is mainly based on previously published records, as well as some records that were not published, but referred in the databases of the following parasite collections: The British Museum (Natural History) Collection at the Natural History Museum, London (NHMUK); Colección Nacional de Helmintos, Mexico City (CNHE); Harold W. Manter Laboratory of Parasitology, Nebraska (HWML), and Smithsonian's National Museum of Natural History, Washington D.C. (USNM). In most cases, the checklist follows the classification and systematic arrangement of Boeger & Kritsky (1993); some records follow World Register of Marine Species (WoRMS 2016).

The families and species of monogeneans are presented in alphabetical order, followed by the Class of the host, site of infection, geographic distribution, including State(s) and locality(ies) of collection (not mentioned for the Mexican

records in Kohn *et al.* (2006) since these authors only referred the states where species were distributed), hosts (species name), and references (between parentheses, in chronological sequence); when one record obtained from a parasite collection database has not been published, the acronym of this collection after the record is included. Type locality, type host, and original reference of a type species are highlighted in bold. In addition, the checklist also includes monogenean species identified only to genus level or even in some cases, to family level (undetermined species). The nomenclatural changes referred in some records are based on particular references indicated in the Remarks section.

Species recorded after the publication of the checklist by Kohn *et al.* (2006) are indicated with an asterisk (\*); however, species recorded before the publication of the check list by Kohn *et al.* (2006) but not included by these authors are marked with (§); taxa included in our study but not registered by Kohn *et al.* (2006) because they were presented in thesis, are indicated with (†).

Records not considered in the list of these authors (included in thesis and some in formal literature) but included in our work are indicated in each record with (\*\*).

When more information is necessary to clarify some record, we include a section of Notes. For each record, the acronym and accession number of the collection(s) where the specimens are deposited is also presented.

## ABBREVIATIONS

The deposition of type specimens is indicated with the letters H (for holotype) and P (for paratype) as superscript after accession numbers. Acronyms used in the checklist are as follows:

CHCM	Colección Helmintológica del CINVESTAV, Mérida, Yucatán;
CHE-UAEH	Colección de Helmintos, Universidad Autónoma del Estado de Hidalgo, Centro de Investigaciones Biológicas, Pachuca, Hidalgo;
CMNPA	Canadian Museum of Nature, Parasite Collection, Ontario;
CNHE	Colección Nacional de Helmintos, Instituto de Biología, UNAM, Mexico;
COPA-UAEM	Colección Parasitológica de la Universidad Autónoma del Estado de Morelos, Cuernavaca, Morelos;
CPMHN-UABCS	Colección Parasitológica del Museo de Historia Natural de la Universidad Autónoma de Baja California Sur, La Paz, Baja California Sur, Mexico;
ECOPA	Colección Parasitológica de El Colegio de la Frontera Sur, Chetumal, Quintana Roo;
HWML	Harold W. Manter Laboratory of Parasitology, University of Nebraska-Lincoln, Nebraska;
IPCAS	Helminthological Collection of the Institute of Parasitology, Biology Centre of the Czech Academy of Sciences, České Budějovice;
LGHBP	Laboratory of General Helminthology, Institute of Biology and Pedology, Far East Science Centre, Academy of Sciences of the USSR, Vladivostok;
MHNG	The Muséum d'Histoire naturelle, Geneva;
MNHN	Muséum national d'Histoire naturelle, Paris;
NHMUK	Natural History Museum, London;
QM	Queensland Museum, South Brisbane;
USNM	Smithsonian's National Museum of Natural History, Washington, D.C.



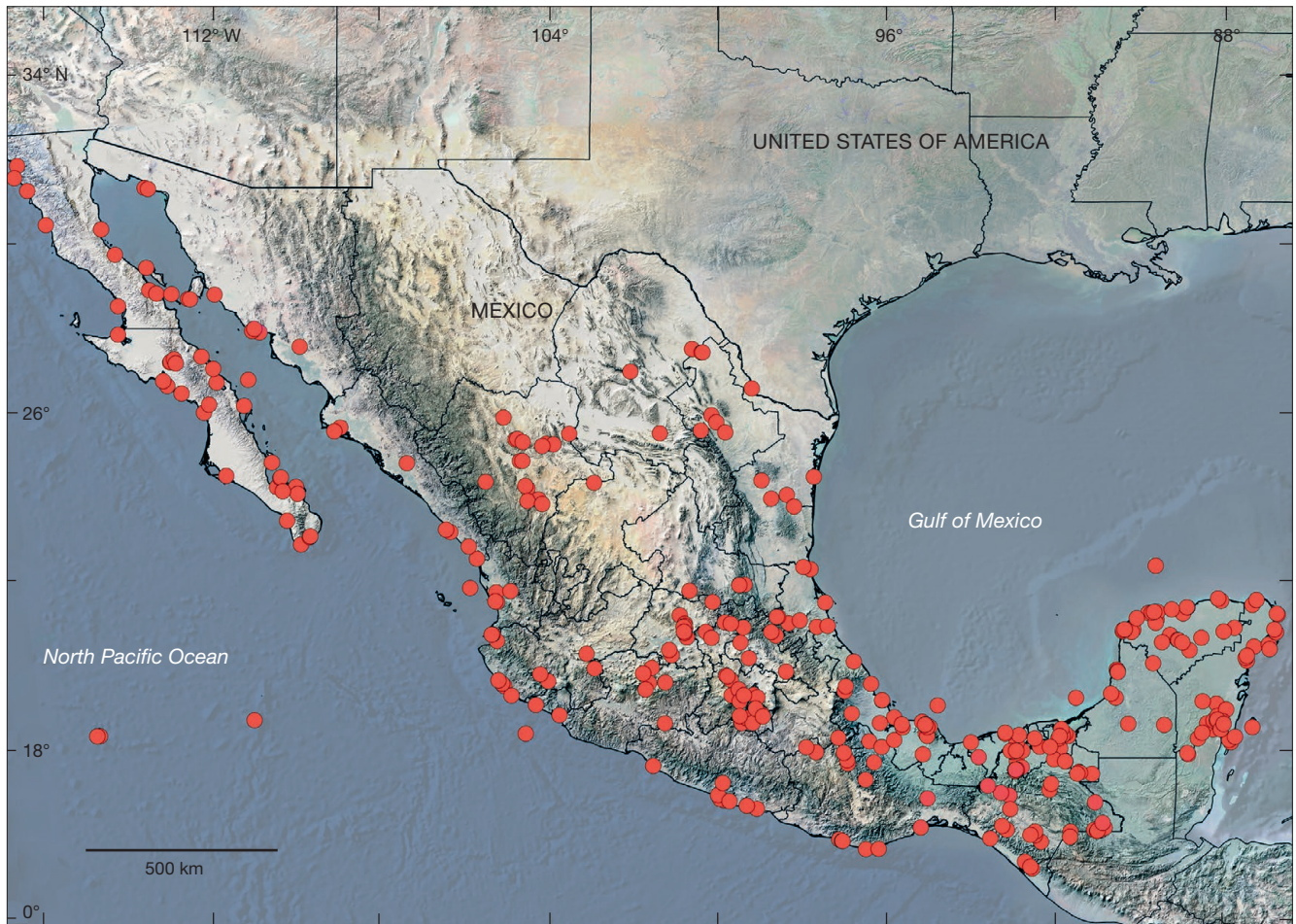


FIG. 1. — Map of Mexico showing the sampled sites for host of monogenean species (●).

Finally, the Host-Parasite list (Appendix 1) is arranged in alphabetical order by class, family and scientific name of hosts with authorship. The nomenclatural update for host species follows particular classification schemes: Froese & Pauly (2016) for elasmobranchs and actinopterygians; Frost (2014) for anurans and Uetz & Hošek (2015) for reptiles. The Appendix II contains all the localities sampled in Mexico where monogeneans have been found; they are arranged alphabetically by State of the Mexican Republic, and include geographic coordinates. All localities where at least one species of monogenean has been recorded in Mexico are presented in Figure 1.

## RESULTS

This checklist contains information on 313 nominal species plus 54 undetermined taxa of monogenean parasites of aquatic vertebrates in Mexico; altogether, the records correspond to 162 genera included in 29 families. The 367 taxa of monogeneans have been recorded in 363 vertebrate host taxa corresponding to 20 taxa of elasmobranchs, 327 of actinopterygians, eight of anurans and eight of testudines (Appendix I). Records presented in this checklist account for 466 localities

+ 29 fish farm not geographically ubicated across the Yucatán Peninsula. All localities correspond to 29 states of the Mexican Republic. Only three states, i.e. Aguascalientes, Chihuahua, and Tlaxcala, lack thus far records for monogeneans. The most intensively sampled states are Veracruz and Chiapas, with 41 and 40 localities studied, respectively, whereas Zatecas only has one locality with records of monogeneans (see Fig. 1; Appendix II). Of the 498 localities 116 are marine, 37 brackish water, and 345 are freshwater. Clearly, a stronger emphasis has been made in sampling freshwater localities in Mexico; however, the number of marine monogenean species recorded is almost twice the number of freshwater monogenean species.

In terms of diversity, the marine fish *Caranx hippos* (Linnaeus, 1766) and the introduced freshwater fish *Oreochromis niloticus* (Linnaeus, 1758), are the host species with the highest species richness across their distributional ranges; the former is distributed along the Pacific Ocean coast, and the later in water bodies where the host has been introduced for aquaculture practices and fish farms, with 17 and 15 monogenean taxa, respectively. *Gyrodactylus* von Nordman, 1832 and *Haliotrematoides* Kritsky, Yang & Sun, 2009 are the genera with the largest number of species in Mexico; up to the present

22 species of *Gyrodactylus* have been recorded from freshwater fish, while 12 of *Haliotrema* have been registered as parasites of marine fish. To date, the number of new species of this group of Platyhelminthes described as parasites of aquatic vertebrates in Mexico is 150, i.e. nearly 48% of the nominal species; most of them have been reported from actinopterygians (135 species), followed by elasmobranchs (12 species), anurans (two species), and testudines (one).

## PARASITE-HOST LIST

Phylum PLATHYHELMINTHES Rudolphi, 1808  
Classe MONOGENEA van Beneden, 1858  
Order MONOPISTHOCOTYLEA Odhner, 1912  
Family CALCEOSTOMATIDAE Parona & Perugia, 1890

*Paracalceostoma calceostomoides*  
Caballero & Bravo-Hollis, 1959  
(Fig. 2D)

*Paracalceostoma calceostomoides* Caballero & Bravo-Hollis, 1959: 173.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Banderas: *Haemulon scudderii* (Caballero & Bravo-Hollis 1959); Bahía de Chame: *Anisotremus interruptus*, *H. scudderii*, Holocentridae gen. sp. (Pérez-Ponce de León *et al.* 1999)\*\*.

**Sonora.** Bahía Kino: *Balistes polylepis* (Caballero & Bravo-Hollis 1962a).

SPECIMENS IN COLLECTIONS. — CNHE (36, 88, 91, 3058-60) (H, P).

## REMARK

The validity of the genus *Paracalceostoma* Caballero & Bravo-Hollis, 1959 was questioned by Euzet & Ktari (1973), who suggested their probable synonymy with *Calceostoma*.

Family CAPSALIDAE Baird, 1853

*Allobenedenia pseudomarginata* (Bravo-Hollis, 1957)

*Trochopus pseudomarginatus* Bravo-Hollis, 1957: 205.

*Benedenia convoluta* Bravo-Hollis, 1953: 142.

*Megalocotyloides pseudomarginatus* — Bychowsky & Nagibina 1967: 525.

*Allobenedenia pseudomarginata* — Yang *et al.* 2004: 227.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Bahía Las Ánimas, Bahía de Los Ángeles, Isla Espíritu Santo (El Candelero): *Paralabrax auroguttatus* (Gómez del Prado 2012); Ensenada: *Paralabrax nebulifer* (Gómez del Prado 2012).

**Baja California Sur.** Punta San Francisquito: *P. auroguttatus* (Gómez del Prado 2012); San José del Cabo: *Hyporhamphus acanthistius* (Inohye-Rivera 1995)\*\*.

**Guerrero.** Zihuatanejo: *Epinephelus analogus* (Lamothe-Argumedo 1963a)\*\*.

**Jalisco.** Puerto Vallarta: *E. analogus*, *Epinephelus labriformis* (Bravo-Hollis 1957).

SPECIMENS IN COLLECTIONS. — CNHE (127, 142-3, 146) (H, P); CPMHN-UABCS (34, 431).

## NOTE

The record of *Benedenia convoluta* in Mexico referred by Kohn *et al.* (2006) is not valid; this record was made by Bravo-Hollis (1953), but this author clarified their identity four years later, when she relocated this material into the genus *Trochopus* (as *Trochopus pseudomarginatus* Bravo-Hollis 1957). Currently the valid name for this species is *Allobenedenia pseudomarginata* (Yang *et al.* 2004).

*Benedenia jaliscana* Bravo-Hollis, 1951

*Benedenia jaliscana* Bravo-Hollis, 1951: 497.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero.** Zihuatanejo: *Epinephelus analogus* (Lamothe-Argumedo 1963a)\*\*.

**Jalisco.** Puerto Vallarta: *Epinephelus labriformis* (Bravo-Hollis 1951).

SPECIMENS IN COLLECTIONS. — CNHE (130, 139-40) (H, P).

*Benedenia* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Ensenada: *Scorpaena guttata* (unpublished record, HWML)\*\*.

SPECIMENS IN COLLECTIONS. — HWML (31374).

*Benedeniella posterocolpa* (Hargis, 1955)

*Benedenia posterocolpa* Hargis, 1955: 220.

*Benedeniella posterocolpa* — Yamaguti 1963: 125.

HOSTS. — Elasmobranchii (skin).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Estuario Champotón: *Rhinoptera bonasus* (Pulido-Flores & Monks 2005).

SPECIMENS IN COLLECTIONS. — CNHE (4370).

*Capsala albsmithi* (Dollfus, 1962)<sup>§</sup>

*Caballerocotyla albsmithi* Dollfus, 1962: 526.

*Capsala albsmithi* — Chisholm & Whittington 2007: 7.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Isla Guadalupe: *Thunnus orientalis* (Dollfus 1962).

SPECIMENS IN COLLECTIONS. — None.



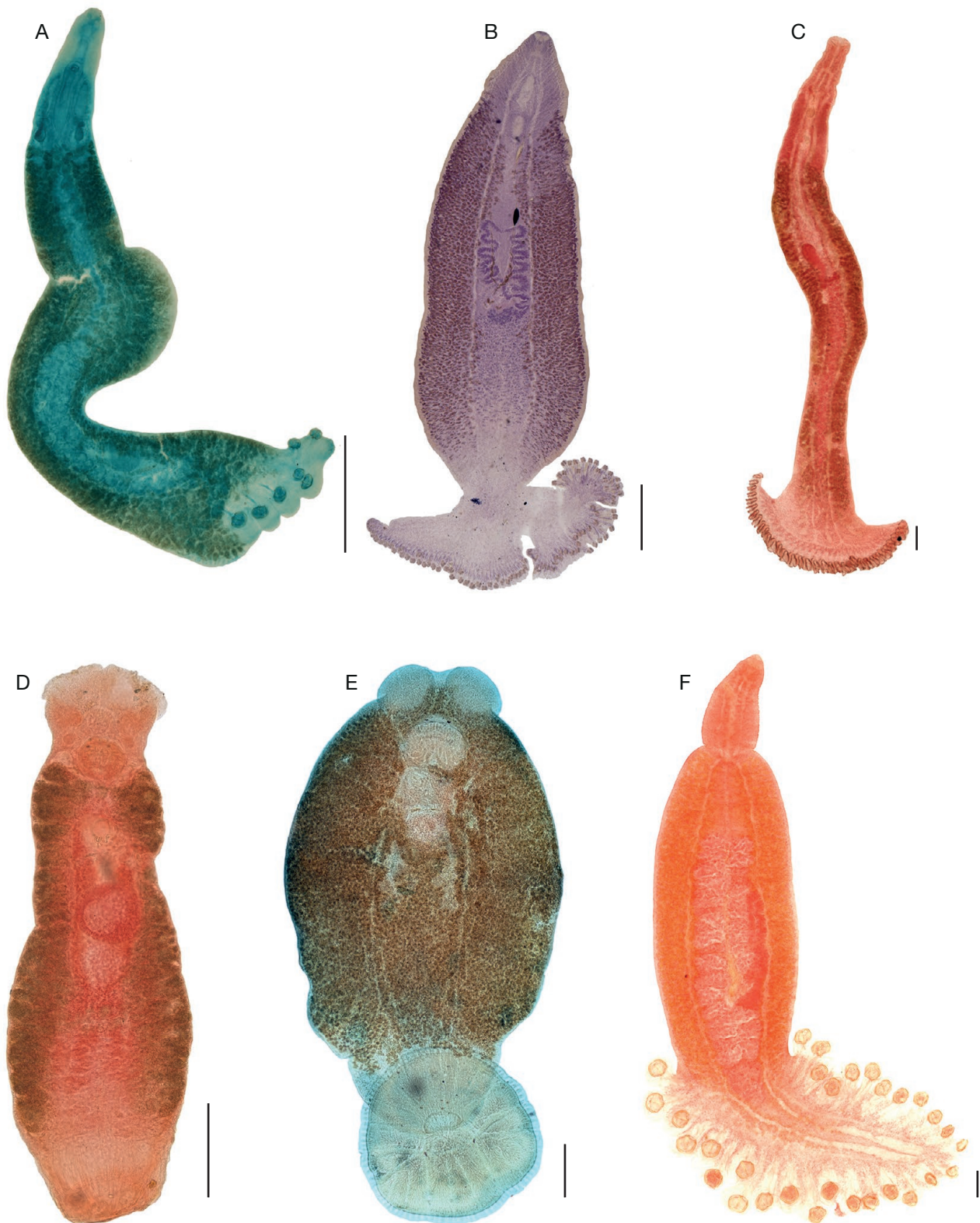


FIG. 2. — Micrographs of some monogeneans representatives of the 29 families recorded in vertebrates of Mexico: **A**, Alloodiscocotylidae: *Hargicola oligoplites* (Hargis, 1957) (CNHE 243); **B**, Allopyragraphoridae: *Allopyragraphorus caballeroi* (Zerecero, 1960) (CNHE 24); **C**, Axinidae: *Axinoides raphidoma* Hargis, 1956 (CNHE 3066); **D**, Calceostomatidae: *Paracalceostoma calceostomoides* Caballero & Bravo-Hollis, 1959 (CNHE 36); **E**, Capsalidae: *Sprostoniella lamothei* Pérez-Ponce de León & Mendoza-Garfias, 2000 (CNHE 3616); **F**, Chauhanidae: *Cotyloatlantica pretiosa* Bravo-Hollis, 1984 (CNHE 195). Scale bars: 200  $\mu$ m.

REMARK

The site of collection referred by Chisholm & Whittington (2007) for this species was just “off Baja California, Mexico”; however, previously Wagner & Carter (1967) clarified the original collection site.

*Capsala caballeroi* Winter, 1955

*Capsala caballeroi* Winter, 1955: 10.

*Caballerocotyla caballeroi* – Price 1960: 241.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Guerrero. Acapulco: *Sarda orientalis* (Winter 1955).

SPECIMENS IN COLLECTIONS. — CNHE (74)<sup>(H)</sup>.

REMARK

This species was re-instated in *Capsala* by Chisholm & Whittington (2007).

*Capsala gregalis* (Wagner & Carter, 1967)

*Caballerocotyla gregalis* Wagner & Carter, 1967: 277.

*Caballerocotyla australis* Oliva, 1986: 89.

*Capsala gregalis* – Chisholm & Whittington 2007: 7.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Baja California. Ensenada: *Sarda chilensis* (unpublished record, HWML)\*\*.

SPECIMENS IN COLLECTIONS. — HWML (31476).

REMARK

The genus *Caballerocotyla* was considered as synonym of *Capsala* by Chisholm & Whittington (2007).

*Capsala laevis* (Verrill, 1875)

*Tristomella laevis* Verrill, 1875: 514.

*Capsala laevis* – Johnston 1929: 76.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Sinaloa. Mazatlán: *Kajikia audax* (Lamothe-Argumedo & Pulido-Flores 1998).

SPECIMENS IN COLLECTIONS. — CNHE (2738).

REMARK

This species was considered as a member of *Capsala* by Chisholm & Whittington (2007). In accordance with Barse & Bullard (2012), specimens of Lamothe-Argumedo & Pulido-Flores (1998) either represent a new species of *Capsala* or the illustration provided for *C. laevis* is highly stylized.

*Capsala pricei* Hidalgo-Escalante, 1958

*Capsala pricei* Hidalgo-Escalante, 1958: 210.

*Tristomella pricei* – Price 1960: 238.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Sinaloa. Mazatlán: *Kajikia audax* (Hidalgo-Escalante 1958).

SPECIMENS IN COLLECTIONS. — CNHE (126)<sup>(P)</sup>.

REMARK

This species was re-instated in *Capsala* by Chisholm & Whittington (2007). Holotype lost.

*Capsala* sp.\*

HOSTS. — Actinopterygii; Not indicated.

GEOGRAPHIC DISTRIBUTION. — Baja California. Isla Coronado: *Thunnus orientalis* (Aiken *et al.* 2007).

SPECIMENS IN COLLECTIONS. — None.

CAPSALIDAE gen. sp.\*

HOSTS. — Actinopterygii; gills, pharynx.

GEOGRAPHIC DISTRIBUTION. — Baja California. Bahía de Los Ángeles, Bahía Las Ánimas: *Paralabrax auroguttatus* (Gómez del Prado 2012); Bahía de Santa Rosalita: *Paralabrax clathratus*, *Paralabrax nebulifer* (Gómez del Prado 2012).

Baja California Sur. Boca de los Cardones (Laguna San Ignacio), Las Barrancas, Punta Malcomb (Laguna San Ignacio): *P. nebulifer* (Gómez del Prado 2012); Isla Espíritu Santo (El Candelero), Punta San Francisquito: *P. auroguttatus* (Gómez del Prado 2012).

SPECIMENS IN COLLECTIONS. — CPMHN-UABCS (430).

REMARK

These records appear as *Bajacalifornia universitaria* in Gómez del Prado (2012), a *nomina nuda* since it was only published in a Ph. D. Thesis.

*Capsaloides hoffmanae* Lamothe-Argumedo, 1996

*Capsaloides hoffmanae* Lamothe-Argumedo, 1996: 164.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Sinaloa. Mazatlán: *Kajikia audax* (Lamothe-Argumedo 1996).

SPECIMENS IN COLLECTIONS. — CNHE (2717-18)<sup>(H, P)</sup>.

REMARK

According to Chisholm & Whittington (2006), this species could be a synonym of *Capsala sinuatus*.

*Capsaloides perugiai* (Setti, 1898)

*Tristoma perugiai* Setti, 1898: 311.

*Caballerocotyla marielenae* Lamothe-Argumedo, 1968: 172.

*Capsaloides perugiai* – Price 1938: 411.

*Capsaloides marielenae* – Lamothe-Argumedo 1996: 168.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Oaxaca**. Puerto Ángel: *Istiophorus platypterus* (Lamothe-Argumedo 1968).

SPECIMENS IN COLLECTIONS. — CNHE (132-3).

*Capsaloides sinuatus* (Goto, 1894)

*Tristomum sinuatum* Goto, 1894: 9.

*Capsala sinuata* – Johnston 1929: 76.

*Capsaloides sinuatus* – Price 1938: 412.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sinaloa**. Mazatlán: *Kajikia audax* (Lamothe-Argumedo & Pulido-Flores 1998).

SPECIMENS IN COLLECTIONS. — CNHE (2739).

## REMARK

The species identification was validated by Chisholm & Whittington (2006, 2007).

*Encotyllabe pagrosomi* MacCallum, 1917

*Encotyllabe pagrosomi* MacCallum, 1917: 197.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Canal Cerralvo: *Caulolatilus affinis* (Pérez-Urbiola 1995)\*\*.

**Sinaloa**. Mazatlán: *Pomadasy macracanthus* (Bravo-Hollis 1957).

SPECIMENS IN COLLECTIONS. — CNHE (141).

*Encotyllabe* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tabasco**. Centro Acuicola Teapa: *Oreochromis niloticus* (Texta-Camacho 2003)\*\*; Laguna El Rosario: *Eugerres plumieri* (López-Jiménez 2001).

**Veracruz**. Playa Las Barrancas (Alvarado): *Menticirrhus americanus*, *Menticirrhus littoralis* (Montoya-Mendoza *et al.* 2008).

SPECIMENS IN COLLECTIONS. — CNHE (6196).

*Entobdella hippoglossi* (Müller, 1776)

*Epibdella hippoglossi* Müller, 1776: 567.

*Entobdella curvunca* Ronald, 1957: 47.

*Entobdella hippoglossi* – Blainville in Lamarck 1818: 463.

HOSTS. — Actinopterygii; gill cavity, skin.

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Bahía de Santa Inés: *Xenistius californiensis* (Payne 1991)\*\*.

SPECIMENS IN COLLECTIONS. — None.

*Entobdella* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California**. Ensenada: *Semicossyphus pulcher* (unpublished record, HWML)\*\*.

SPECIMENS IN COLLECTIONS. — HWML (31177).

*Listrocephalos guberleti*  
(Caballero & Bravo-Hollis, 1962)

*Entobdella guberleti* Caballero & Bravo-Hollis, 1962a: 63.

*Listrocephalos guberleti* – Bullard *et al.* 2004: 1417.

HOSTS. — Elasmobranchii; gills, skin.

GEOGRAPHIC DISTRIBUTION. — **Baja California**. Bahía de Los Ángeles: *Urobatis halleri* (Bullard *et al.* 2004)\*\*; Isla San Esteban: *Urobatis concentricus*, *Urobatis maculatus*, *Urobatis* sp. (Bullard *et al.* 2004)\*\*. **Sonora**. Bahía de Guaymas: *U. halleri* (Caballero & Bravo-Hollis 1962a).

SPECIMENS IN COLLECTIONS. — CNHE (34-5) (H, P); USNM (94826-8).

## NOTE

Kohn *et al.* (2006) listed this species under its original name (*Entobdella guberleti*).

*Listrocephalos kearni* Bullard, Payne & Braswell, 2004§

*Listrocephalos kearni* Bullard, Payne & Braswell, 2004: 1419.

HOSTS. — Elasmobranchii (skin).

GEOGRAPHIC DISTRIBUTION. — **Baja California**. Bahía de Los Ángeles: *Dasyatis brevis* (Bullard *et al.* 2004).

**Baja California Sur**. Santa Rosalía: *D. brevis* (Bullard *et al.* 2004).

SPECIMENS IN COLLECTIONS. — CNHE (5021-2) (H, P); USNM (94829-34) (P).

*Listrocephalos whittingtoni*  
Bullard, Payne & Braswell, 2004§

*Listrocephalos whittingtoni* Bullard, Payne & Braswell, 2004: 1422.

HOSTS. — Elasmobranchii (skin).

GEOGRAPHIC DISTRIBUTION. — **Baja California**. Bahía de Los Ángeles: *Hypanus longus* (Bullard *et al.* 2004).

**Baja California Sur**. Bahía de La Paz: *H. longus* (Bullard *et al.* 2004).



SPECIMENS IN COLLECTIONS. — CNHE (5023-4) <sup>(H, P)</sup>; USNM (94835-39) <sup>(P)</sup>.

*Megalobenedenia derzhavini* (Layman, 1930)\*

*Epibdella derzhavini* Layman, 1930: 60.

*Benedenia derzhavini* – Meserve 1938: 34. — Rodríguez-Santiago *et al.* 2014: 301.

*Megalobenedenia derzhavini* – Egorova 1994: 77.

HOSTS. — Actinopterygii; Fins, gill cavity, skin.

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Bahía de San Quintín: *Sebastes miniatus* (Rodríguez-Santiago *et al.* 2014).

SPECIMENS IN COLLECTIONS. — None.

*Nasicola klawei* (Stunkard, 1962)

*Caballeroctyla klawei* Stunkard, 1962: 883.

*Nasicola klawei* – Yamaguti 1968: 53.

HOSTS. — Actinopterygii; Nasal capsule.

GEOGRAPHIC DISTRIBUTION. — **Colima.** Off shore Colima: *Thunnus albacares* (Stunkard 1962).

SPECIMENS IN COLLECTIONS. — USNM (59865) <sup>(H, P)</sup>.

REMARK

The type locality registered at USNM is: “Pacific Ocean, Fiji, Suva”, but the geographic coordinates recorded by Stunkard (1962) (18°24’N, 104°38’W) correspond to Mexican Pacific waters. This species was validated by Chisholm & Whittington (2007).

*Neobenedenia adenea* (Meserve, 1938)

*Benedenia adenea* Meserve, 1938: 36.

*Benedenia anadenea* Meserve, 1938: 38.

*Neobenedenia adenea* – Yamaguti 1963: 128.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de La Paz: *Mycteroperca rosacea*, *Scarus perri* (Bravo-Hollis 1957). **Colima.** Isla Socorro: *Mycteroperca* sp. (Meserve 1938).

SPECIMENS IN COLLECTIONS. — CNHE (144); HWML (1364); USNM (9179, 9180-1) <sup>(H, P)</sup>.

NOTE

Kohn *et al.* (2006) listed *Benedenia anadenea* as independent species of *B. adenea*. However, Price (1939b) considered *B. anadenea* as synonymous with *B. adenea*, which was relocated to *Neobenedenia* by Yamaguti (1963). Whittington & Horton

(1996) confirmed the proposal of Price (1939b). Likewise, Kohn *et al.* (2006) assigned the records of *N. adenea* made by Bravo-Hollis (1957) to Baja California, but they belong actually to Baja California Sur.

*Neobenedenia isabellae* (Meserve, 1938)

*Benedenia isabellae* Meserve, 1938: 35.

*Neobenedenia isabellae* – Yamaguti 1963: 129.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nayarit.** Isla Isabela: “Unidentified spotted grouper-like fish” (Meserve 1938), *Mycteroperca olfax* (Lamothe-Argumedo 1963a)\*\*.

SPECIMENS IN COLLECTIONS. — CNHE (129); HWML (1365); USNM (9178) <sup>(H)</sup>.

*Neobenedenia longiprostata* Bravo-Hollis, 1971

*Neobenedenia longiprostata* Bravo-Hollis, 1971: 158.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Isla Rasa: *Epinephelus analogus* (Bravo-Hollis 1971).

SPECIMENS IN COLLECTIONS. — CNHE (155-6) <sup>(H, P)</sup>; USNM (75527) <sup>(P)</sup>.

REMARK

According to Whittington & Horton (1996), a further study of fresh material of *N. longiprostata* is needed to determine their independence of *N. melleni*. Bravo-Hollis (1971) had a query after the identification of host species indicating she was unsure of the host identity.

*Neobenedenia melleni* (MacCallum, 1927)

*Epibdella melleni* MacCallum, 1927: 291.

*Neobenedenia girellae* Hargis, 1955: 48.

*Neobenedenia pargueraensis* Dyer, Williams & Bunkley-Williams, 1992: 399.

*Neobenedenia melleni* – Yamaguti 1963: 128.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de La Paz: *Mycteroperca rosacea* (Bravo-Hollis 1957). **Nayarit.** Bahía de Banderas: *Scarus perri* (Lamothe-Argumedo 1963a)\*\*.

**Sinaloa.** Estero Teacapán: *Sphoeroides annulatus* (Fajer-Ávila *et al.* 2004); Mazatlán: *S. annulatus* (Fajer-Ávila *et al.* 2004; Whittington *et al.* 2004).

SPECIMENS IN COLLECTIONS. — CNHE (128, 145, 4286).



## REMARK

The specimens from Baja California Sur and Nayarit were recorded as *Benedenia girellae*, but this species was considered as synonym of *N. melleni* by Whittington & Horton (1996). The material from Mazatlán appears as *Neobenedenia* sp. in Whittington *et al.* (2004).

## NOTE

The record of this species in Baja California Sur (Bravo-Hollis 1957) was referred to Baja California in the checklist of Kohn *et al.* (2006).

*Neobenedenia pacifica* Bravo-Hollis, 1971

*Neobenedenia pacifica* Bravo-Hollis, 1971: 155.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de La Paz: *Mugil cephalus* (Bravo-Hollis 1971).

SPECIMENS IN COLLECTIONS. — CNHE (157)<sup>(H)</sup>.

## REMARK

According to Whittington & Horton (1996) the collection of further material from the type-host and type-locality will enable a full reappraisal of the validity of *N. pacifica*.

*Neobenedenia* sp.\*

HOSTS. — Actinopterygii (skin).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Acuario de Veracruz: *Oreochromis* sp. (Rubio-Godoy *et al.* 2011).

SPECIMENS IN COLLECTIONS. — CNHE (7447).

*Pseudobenedenia* sp.†

HOSTS. — Actinopterygii (pharynx).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** San José del Cabo: *Mycteroperca jordani*, *Mycteroperca rosacea*, *Mycteroperca xenarcha* (Flores-Herrera 1995).

SPECIMENS IN COLLECTIONS. — CPMHN-UABCS (54).

## REMARK

These specimens were deposited by Flores-Herrera (1995) as holotype and paratypes of “*Pseudobenedenia sudcalifornianus*”, an invalid specific name because it was not published.

*Sprostoniella lamothiei*

Pérez-Ponce de León & Mendoza-Garfias, 2000  
(Fig. 2A)

*Sprostoniella lamothiei* Pérez-Ponce de León & Mendoza-Garfias, 2000: 811.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Chaetodipterus zonatus* (Pérez-Ponce de León & Mendoza-Garfias 2000).

SPECIMENS IN COLLECTIONS. — CNHE (3216-7)<sup>(H, P)</sup>; HWML (15018)<sup>(P)</sup>; USNM (88954)<sup>(P)</sup>.

*Trochopus sprostonae* Arai & Koski, 1964

*Trochopus sprostonae* Arai & Koski, 1964: 1007.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Isla Ángel de la Guarda: *Scorpaena guttata* (Payne 1991)\*\*.

SPECIMENS IN COLLECTIONS. — None.

## Family DACTYLOGYRIDAE Bychowsky, 1933

*Acolpenteron ureteroecetes* Fischthal & Allison, 1940\*

*Acolpenteron ureteroecetes* Fischthal & Allison, 1940: 517.

HOSTS. — Actinopterygii; Ureter, urinary bladder.

GEOGRAPHIC DISTRIBUTION. — **Nuevo León.** Laguna de Salinillas, Presa Cerro Prieto (Linares), Presa El Cuchillo (Solidaridad), Presa Rodrigo Gómez (La Boca), Presa Sombrerito: *Micropterus salmoides* (Galavíz-Silva *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (9821).

*Actinocleidus fergusonii* Mizelle, 1938

*Actinocleidus fergusonii* Mizelle, 1938: 45.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Hidalgo.** Laguna de Atezca: *Micropterus salmoides* (Aguilar-Aguilar *et al.* 2004).

SPECIMENS IN COLLECTIONS. — None.

*Actinocleidus* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Hidalgo.** Lago de Tecocomulco: *Cyprinus carpio* (Monks *et al.* 2013); Río Metztlán: *Poeciliopsis gracilis* (Porraz-Álvarez 2006).

SPECIMENS IN COLLECTIONS. — CHE-UAHE (00041).

*Ameloblastella chavarriai* (Price, 1938)

*Cleidodiscus chavarriai* Price, 1938: 410.

*Uroleidoides chavarriai* – Molnar *et al.* 1974: 919.

*Ameloblastella chavarriai* – Kritsky *et al.* 2000: 78.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Chiapas**. Río Pedregal: *Rhamdia laticauda* (Salgado-Maldonado *et al.* 2011a).

**Oaxaca**. Arroyo San Juan Evangelista: *Rhamdia guatemalensis* (Salgado-Maldonado *et al.* 2005a).

**Tabasco**. Pantanos de Centla: *R. guatemalensis* (Texta-Camacho 2003)\*\*; Arroyo Sones (Teapa): *R. guatemalensis* (López-Jiménez 2001).

**Veracruz**. Lago de Catemaco, Tlacotalpan: *R. guatemalensis* (Salgado-Maldonado *et al.* 2005a).

**Yucatán**. Cenote Ixin-há: *R. guatemalensis* (Mendoza-Franco *et al.* 1999; Kritsky *et al.* 2000).

SPECIMENS IN COLLECTIONS. — CHCM (313); CNHE (3710, 6170, 6302).

#### ANCYROCEPHALINAE gen. sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Campeche: *Trachinotus carolinus* (Sánchez-Ramírez & Vidal-Martínez 2002).

**Chiapas**. Angostura (Centro Acuicola Benito Juárez): *Oreochromis mossambicus*, *Oreochromis urolepis* (Pineda-López *et al.* 1985b)\*\*.

**Coahuila**. Río en Celemania: *Herichthys cyanoguttatus* (Aguilar-Aguilar *et al.* 2014); Charcos Prietos, Poza La Becerra, Poza Tío Cándido: *Herichthys minckleyi* (Aguilar-Aguilar *et al.* 2014).

**Guanajuato**. Presa Ignacio Allende: *Cyprinus carpio* (Jiménez-Cortés 2003)\*\*.

**Jalisco**. Bahía de Chamela: *Trachinotus rhodopus* (Pérez-Ponce de León *et al.* 1999)\*\*.

**Michoacán**. Lago de Pátzcuaro: *Micropterus salmoides* (Ramos-Ángeles 1994)\*\*.

**Quintana Roo**. Mahahual: *Parachromis friedrichsthalii* (Vidal-Martínez *et al.* 2001).

**Veracruz**. Arroyo Balzapote, Río Frío: *Heterandria bimaculata* (Salgado-Maldonado *et al.* 2005a).

**Yucatán**. Laguna de Celestún: *Archosargus rhomboidalis*, *Archosargus probatocephalus*, *Bairdiella ronchus*, *Lagodon rhomboides*, *Lutjanus griseus* (Sosa-Medina *et al.* 2015).

SPECIMENS IN COLLECTIONS. — None.

#### *Ancyrocephalus cornutus* Williams & Rogers, 1972<sup>†</sup>

*Ancyrocephalus cornutus* Williams & Rogers, 1972: 876.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Yucatán**. Ría Lagartos: *Strongylura notata* (Tello-Osalde 1999).

SPECIMENS IN COLLECTIONS. — None.

#### *Ancyrocephalus* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Río Ayuquila (El Camichín): *Agonostomus monticola* (Salgado-Maldonado *et al.* 2004a).

**Tamaulipas**. Presa Vicente Guerrero: *Micropterus salmoides* (Pérez-Ponce de León *et al.* 1996)\*\*.

SPECIMENS IN COLLECTIONS. — None.

#### *Aphanoblastella travassosi* (Price, 1938)

*Cleidodiscus travassosi* Price, 1938: 411.

*Uroleidoides travassosi* – Molnar *et al.* 1974: 919. — Mendoza-Franco *et al.* 1999: 271.

*Aphanoblastella travassosi* – Kritsky *et al.* 2000: 81.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Chiapas**. Río Pedregal, Río Vado Ancho: *Rhamdia laticauda* (Salgado-Maldonado *et al.* 2011a).

**Tabasco**. Laguna El Rosario: *Rhamdia guatemalensis* (Texta-Camacho 2003)\*\*; Pantanos de Centla: *R. guatemalensis* (López-Jiménez 2001).

**Veracruz**. Río La Antigua (Apazapan): *R. guatemalensis* (Salgado-Maldonado *et al.* 2016); Lago de Catemaco, Tlacotalpan: *R. guatemalensis* (Salgado-Maldonado *et al.* 2005a).

**Yucatán**. Cenote Homún, Cenote Hubiku, Cenote Hunucmá, Cenote Scan Yui, Cenote Tixkanka, Cenote Xcangachén, Cenote Xmucuy: *R. guatemalensis* (Mendoza-Franco *et al.* 1999); Cenote Ixin-há: *R. guatemalensis* (Mendoza-Franco *et al.* 1999; Kritsky *et al.* 2000).

SPECIMENS IN COLLECTIONS. — CHCM (314); CNHE (3711, 6176, 6303); COPA-UAEM (M-101); HWML (15016); IPCAS (M-353); USNM (88964).

#### *Aristocleidus hastatus* Mueller, 1936\*

*Aristocleidus hastatus* Mueller, 1936b: 460.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Laguna Chautengo: *Diapterus peruvianus*, *Gerres cinereus* (Mendoza-Franco *et al.* 2009a); Laguna de Coyuca: *D. peruvianus* (Violante-González & Aguirre-Macedo 2007); Laguna de Tres Palos: *D. peruvianus* (Violante-González *et al.* 2007; Kritsky & Mendoza-Franco 2008).

**Quintana Roo**. Bahía de Chetumal, Laguna Guerrero, Laguna Salada: *Eugerres plumieri* (González-Solis & Sánchez-Ceballos 2012).

**Veracruz**. Playa Las Barrancas (Alvarado): *Diapterus auratus* (Mendoza-Franco *et al.* 2009a); Río Máquinas: *E. plumieri* (Mendoza-Franco *et al.* 2009a).

**Yucatán**. Ría Celestún, Ría Lagartos: *Diapterus rhombeus* (Mendoza-Franco *et al.* 2009a); Ría Lagartos: *D. auratus* (Mendoza-Franco *et al.* 2009a).

SPECIMENS IN COLLECTIONS. — CNHE (5818-19, 6588, 6672-73); ECOPA (081); IPCAS (M484); USNM (101543-46).

#### *Aristocleidus lacantuni* Mendoza-Franco, Tapia-Osorio & Caspeta-Mandujano, 2015\*

*Aristocleidus lacantuni* Mendoza-Franco, Tapia-Osorio & Caspeta-Mandujano, 2015a: 3.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Chiapas**. Río Lacantún: *Eugerres mexicanus* (Mendoza-Franco *et al.* 2015a).

SPECIMENS IN COLLECTIONS. — CNHE (9875-6) (H, P).

*Aristocleidus lamothiei* Kritsky & Mendoza-Franco, 2008\*  
(Fig. 3A)

*Aristocleidus lamothiei* Kritsky & Mendoza-Franco, 2008: 79.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Guerrero. Laguna de Tres Palos: *Diapterus peruvianus* (Kritsky & Mendoza-Franco 2008).

Veracruz. Río Máquinas: *Eugerres plumieri* (Mendoza-Franco *et al.* 2009a).

Yucatán. Ría Celestún: *Diapterus rhombeus* (Mendoza-Franco *et al.* 2009a).

SPECIMENS IN COLLECTIONS. — CNHE (5816-7, 6583) (H, P).

*Aristocleidus mexicanus* Mendoza-Franco, Tapia-Osorio & Caspeta-Mandujano, 2015\*

*Aristocleidus mexicanus* Mendoza-Franco, Tapia-Osorio & Caspeta-Mandujano, 2015a: 2.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Chiapas. Río Lacantún: *Eugerres mexicanus* (Mendoza-Franco *et al.* 2015a).

SPECIMENS IN COLLECTIONS. — CNHE (9872-4) (H, P).

*Aristocleidus* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Guerrero. Laguna Chautengo: *Gerres cinereus* (Mendoza-Franco *et al.* 2009a).

Veracruz. Laguna La Mancha: *Ariopsis felis*, *Cathorops aguadulce* (Aguilar-Sánchez 1998), *Diapterus auratus* (Téllez-Guzmán 1997), *Mugil curema* (Nieto-Pérez 1998).

SPECIMENS IN COLLECTIONS. — CNHE (6592).

*Bychowskymonogenea sogandaresi*  
Caballero & Bravo-Hollis, 1969

*Bychowskymonogenea sogandaresi* Caballero & Bravo-Hollis, 1969: 57.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Veracruz. Puerto de Veracruz: *Tylosurus crocodilus* (Caballero & Bravo-Hollis 1969).

SPECIMENS IN COLLECTIONS. — CNHE (255, 510) (P).

#### REMARK

Holotype in the personal collection of Eduardo Caballero y Caballero.

*Cacatuocotyle chajuli* Mendoza-Franco, Caspeta-Mandujano & Salgado-Maldonado, 2013\*

*Cacatuocotyle chajuli* Mendoza-Franco, Caspeta-Mandujano & Salgado-Maldonado, 2013a: 200.

HOSTS. — Actinopterygii; Anal opening.

GEOGRAPHIC DISTRIBUTION. — Chiapas. Arroyo José, Arroyo Lagarto, Arroyo Miranda, Embarcadero, Río Chajul, Río Danta, Río Manzanares, Río Puerto Rico, Río San Pablo, Río Tzendales: *Astyanax aeneus* (Mendoza-Franco *et al.* 2013a).

SPECIMENS IN COLLECTIONS. — CNHE (8268-76) (H, P).

*Cacatuocotyle exiguum*

Mendoza-Franco, Caspeta-Mandujano & Salgado-Maldonado, 2013\*

*Cacatuocotyle exiguum* Mendoza-Franco, Caspeta-Mandujano & Salgado-Maldonado, 2013a: 202.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Chiapas. Río Chajul, Río Manzanares, Río Puerto Rico, Río San Pablo, Río Tzendales: *Astyanax aeneus* (Mendoza-Franco *et al.* 2013a).

SPECIMENS IN COLLECTIONS. — CNHE (8277-9) (H, P).

*Cacatuocotyle* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Chiapas. Río Chajul: *Astyanax aeneus* (Mendoza-Franco *et al.* 2013a).

SPECIMENS IN COLLECTIONS. — CNHE (8280).

#### REMARK

According to Mendoza-Franco *et al.* (2013a), this specimen represents an undescribed species.

*Characithecium costaricensis* (Price & Bussing, 1967)

*Cleidodiscus costaricensis* Price & Bussing, 1967: 82.

*Uroleidoides costaricensis* – Kritsky & Leiby 1972: 229.

*Uroleidoides astyanacis* Gioia, Silva-Cordeiro & Toledo-Artigas, 1988: 13.

*Characithecium costaricensis* – Mendoza-Franco *et al.* 2009b: 47.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Chiapas. Arroyo El Girasol, Lago Paraíso (El Raizal), Puente La Calzada, Río Bonanza, Río Chacamax, Río La Fortuna, Río Palenque, Río Pedregal, Río Suchiapa, Río Vado Ancho: *Astyanax aeneus* (Salgado-Maldonado *et al.* 2011a); Lago Montebello: *A. aeneus* (Salgado-Maldonado *et al.* 2011b). Coahuila. Anteojo San Juan, Canal entre La Vega y El Venado, Poza La Becerra: *Astyanax mexicanus* (Aguilar-Aguilar *et al.* 2014). Durango. Puente Lajas 2: *A. mexicanus* (Pérez-Ponce de León *et al.* 2010).

Morelos. Río Amacuzac, Río Amacuzac (Las Planchas): *Astyanax fasciatus* (Salgado-Maldonado *et al.* 2001a); Río Cuautla: *A. aeneus* (Caspeta-Mandujano *et al.* 2009).

Oaxaca. Arroyo bajo el Puente Río San Marcos: *A. fasciatus* (Mora-



Bonilla 2010); Cuyotepeji, Petlalcingo: *A. fasciatus* (Salgado-Maldonado *et al.* 2001a).

**Quintana Roo.** Cenote Cabañas, Cenote Dos Bocas, Cenote Escondido, Gran Cenote: *A. fasciatus* (Mendoza-Franco *et al.* 1999).

**Tabasco.** Laguna El Rosario: *A. fasciatus* (López-Jiménez 2001); Río San Pedro: *A. fasciatus* (Texta-Camacho 2003)\*\*.

**Veracruz.** Laguna Escondida: *A. aeneus* (Salgado-Maldonado *et al.* 2005a), *A. fasciatus* (Mora-Bonilla 2010).

**Yucatán.** Cenote Chaamac: *A. aeneus* (Mendoza-Franco *et al.* 2009b), *A. fasciatus* (Mendoza-Franco *et al.* 1999); Cenote Dzaptún, Cenote Dzibilchaltún, Cenote Noc-choncunchey: *A. fasciatus* (Mendoza-Franco *et al.* 1999); Cenote Dzonot Cervera: *A. aeneus* (Mendoza-Franco *et al.* 2009b).

SPECIMENS IN COLLECTIONS. — CHCM (234); CNHE (8417, 9665, 6274-6); COPA-UAEM (M-007); NHMUK (1996.10.22.23); USNM (086887).

#### NOTE

The record of this species in Guerrero, referred by Kohn *et al.* (2006), could not be confirmed in the original bibliographic sources.

### *Cichlidogyrus dossoui* Douëllou, 1993

*Cichlidogyrus dossoui* Douëllou, 1993: 174.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Estuario Atasta, Estuario Champotón, Laguna El Vapor, Laguna Silvituc: *Oreochromis niloticus* (Vidal-Martínez *et al.* 2001).

**Tabasco.** Carretera Villahermosa-Teapa, Km 25: *O. niloticus* (López-Jiménez 2001; Texta-Camacho 2003).

**Veracruz.** Centro Acuicola en Medellín: *Oreochromis* sp. (Montoya-Mendoza *et al.* 2016); Centro Acuicola en Nautla: *Oreochromis mossambicus*, *O. niloticus*, “Pargo UNAM” (Aguirre-Fey *et al.* 2015).

**Yucatán.** CINVESTAV-Mérida: *O. niloticus* (Jiménez-García *et al.* 2001; Vidal-Martínez *et al.* 2001). Twenty-seven fish farms along Yucatán state: *O. niloticus* (Paredes-Trujillo *et al.* 2016).

SPECIMENS IN COLLECTIONS. — None.

### *Cichlidogyrus halli* (Price & Kirk, 1967)\*

*Cleidodiscus halli* Price & Kirk, 1967: 137.

*Cichlidogyrus tubicirrus magnus* Paperna & Thurston, 1969: 15.

*Cichlidogyrus magnus* Paperna & Thurston, 1969: 18.

*Cichlidogyrus halli typicus* Paperna, 1979: 1-131.

*Cichlidogyrus halli* – Paperna 1979: 1-131.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Yucatán.** Ten fish farms along Yucatán state: *Oreochromis niloticus* (Paredes-Trujillo *et al.* 2016).

SPECIMENS IN COLLECTIONS. — None.

### *Cichlidogyrus haplochromii* Paperna & Thurston, 1969

*Cichlidogyrus haplochromii* Paperna & Thurston, 1969: 15-33.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Yucatán.** CINVESTAV-Mérida: *Oreochromis niloticus* (Jiménez-García *et al.* 2001).

SPECIMENS IN COLLECTIONS. — None.

### *Cichlidogyrus quaestio* Douëllou, 1993\*

*Cichlidogyrus quaestio* Douëllou, 1993: 181.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Yucatán.** Four fish farms along Yucatán state: *Oreochromis niloticus* (Paredes-Trujillo *et al.* 2016).

SPECIMENS IN COLLECTIONS. — None.

### *Cichlidogyrus sclerosus* Paperna & Thurston, 1969

*Cichlidogyrus sclerosus* Paperna & Thurston, 1969: 15-33.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Oasis La Purísima, Oasis San José del Cabo: *Coptodon zillii* (Méndez *et al.* 2010). **Campeche.** Estuario Atasta, Estuario Champotón, Laguna El Vapor, Laguna Silvituc: *Oreochromis niloticus* (Vidal-Martínez *et al.* 2001). **Durango.** Ojo de Agua San Juan: *O. niloticus* (present study); Río Nazas (poblado de Nazas): *O. niloticus* (Pérez-Ponce de León *et al.* 2010).

**Jalisco.** Río Ayuquila (El Grullo): *Oreochromis aureus* (Salgado-Maldonado *et al.* 2004a).

**Morelos.** Centro Acuicola Cuautitla: *Oreochromis* sp. (Hernández-Ocampo *et al.* 2012); Centro Acuicola El Rodeo: *Oreochromis urolepis* (Flores-Crespo *et al.* 1995); Centro Acuicola El Jicarero (Río Ticumán): *O. niloticus* (Caspeta-Mandujano *et al.* 2009).

**Undetermined.** *Oreochromis mossambicus*, *O. urolepis* (see Flores-Crespo & Flores-Crespo 2003).

**Quintana Roo.** Laguna Noh-Bek: *O. niloticus* (Kritsky *et al.* 1994).

**Tabasco.** Centro Acuicola Teapa: *O. niloticus* (López-Jiménez 2001), *Mayaheros urophthalmus* (Salgado-Maldonado *et al.* 2005b); División Académica de Ciencias Agropecuarias (Centro): *M. urophthalmus* (Salgado-Maldonado *et al.* 2005b); El Recreo (Tenosique): *O. niloticus* (Texta-Camacho 2003)\*\*.

**Veracruz.** Centro Acuicola en Medellín: *Oreochromis* sp. (Montoya-Mendoza *et al.* 2016); Centro Acuicola en Nautla: *O. mossambicus*, *O. niloticus*, “Pargo UNAM” (Aguirre-Fey *et al.* 2015); Rancho El Clarín (Tlapacoyan): *Oreochromis* sp. (Benítez-Villa 2010). Lago de Catemaco: *O. aureus*, *Vieja fenestrata* (Jiménez-García *et al.* 2001). **Yucatán.** CINVESTAV-Mérida, Lago San Antonio: *O. niloticus* (Vidal-Martínez *et al.* 2001); twenty-nine fish farms along Yucatán state: *O. niloticus* (Paredes-Trujillo *et al.* 2016).

SPECIMENS IN COLLECTIONS. — CNHE (1333, 4794, 6361, 6956, 7059-60); COPA-UAEM (M-001); HWML (36294).

#### REMARK

This species was recorded for the first time in Mexico as parasites of *O. urolepis* and *O. mossambicus* imported from Palmetto, Florida, USA (Lázaro-Chávez 1985).

#### NOTE

The record of *Tetraodon* sp. in Morelos state, presented by Kohn *et al.* (2006), is based on the list published by Flores-

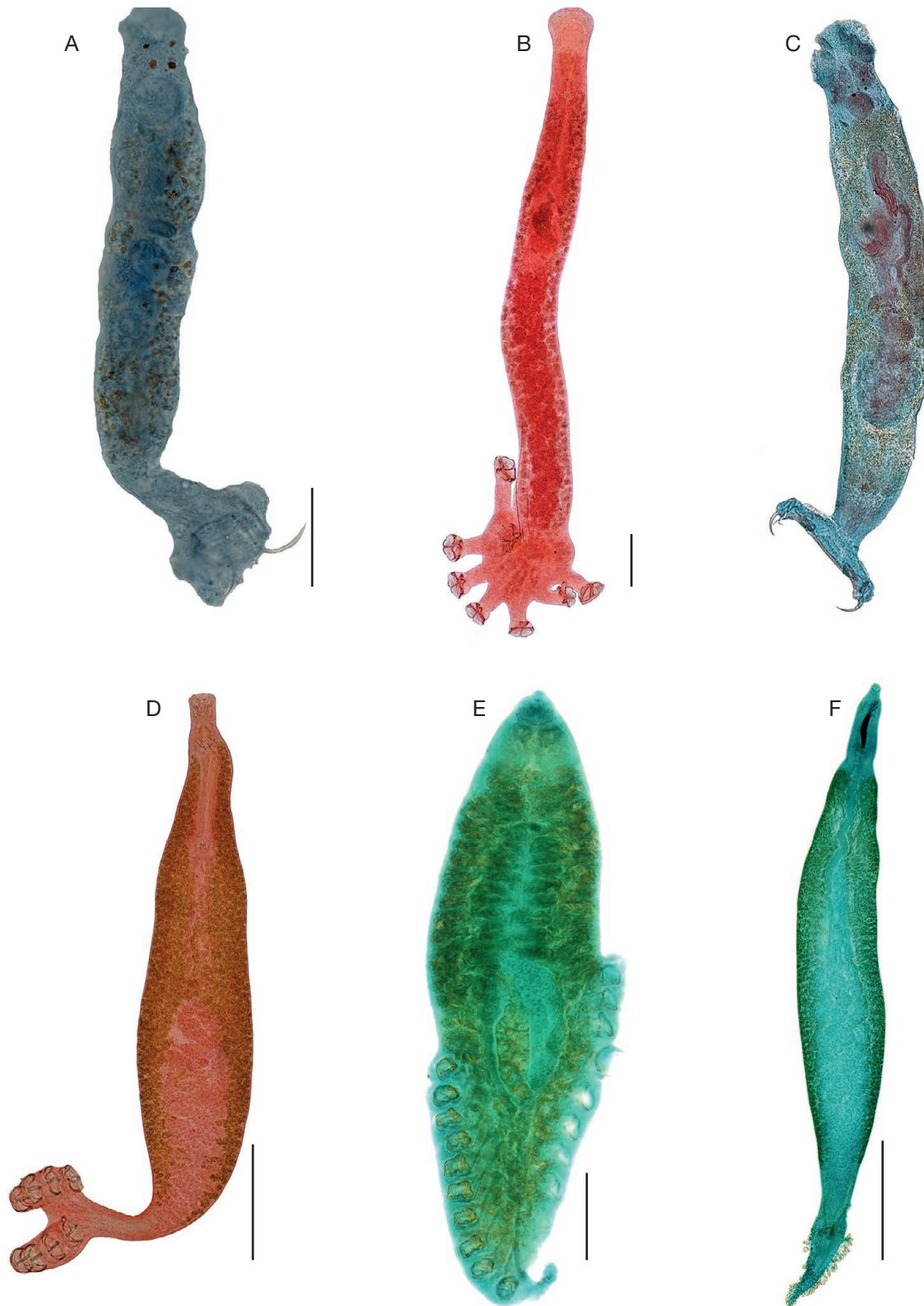


FIG. 3. — Micrographs of some monogeneans representatives of the 29 families recorded in vertebrates of Mexico: **A**, Dactylogyridae: *Aristocleidus lamothei* Kritsky & Mendoza-Franco, 2008 (CNHE 5816); **B**, Diclidophoridae: *Choricotyle leonilavazquezae* Lamothe-Argumedo, Aranda-Cruz & Pérez-Ponce de León, 1998 (CNHE 2836); **C**, Diplectanidae: *Acleotrema oliveri* (León-Régagnon, Pérez-Ponce de León & García-Prieto, 1997) (CNHE 2728); **D**, Discocotylidae: *Pseudobicotylophora lopezochoterenai* Lamothe-Argumedo & Pulido-Flores, 1997 (CNHE 3093); **E**, Gastrocotylidae: *Amphipolycotyle chloroscombrus* Hargis, 1957 (CNHE 12); **F**, Gotocotylidae: *Gotocotyla acanthura* (Parona & Perugia, 1896) (CNHE 304). Scale bars: A, 20  $\mu$ m; B-F, 200  $\mu$ m.

Crespo & Flores-Crespo (2003); however, in the same work, Flores-Crespo & Flores-Crespo (2003) clarified that this material actually corresponds to *Cichlidogyrus sclerosus*.

*Cichlidogyrus* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Yucatán**. Four fish farms along Yucatán state: *Oreochromis niloticus* (Paredes-Trujillo *et al.* 2016).

SPECIMENS IN COLLECTIONS. — None.

*Cichlidogyrus tilapiae* Paperna, 1960

*Cichlidogyrus tilapiae* Paperna, 1960: 2-15.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Durango**. Ojo de Agua San Juan: *Oreochromis niloticus* (present study).

**Tabasco**. Centro Acuicola Teapa: *O. niloticus* (Texta-Camacho 2003)\*\*; Centro Acuicola del Municipio de Centro: *O. niloticus* (López-Jiménez 2001).

**Veracruz**. Centro Acuicola en Medellín: *Oreochromis* sp. (Montoya-Mendoza *et al.* 2016); Lago de Catemaco: *Oreochromis aureus*, *Vieja fenestrata* (Jiménez-García *et al.* 2001).

**Yucatán**. CINVESTAV-Mérida: *O. niloticus* (Jiménez-García *et al.* 2001); Twenty-nine fish farms along Yucatán state: *O. niloticus* (Paredes-Trujillo *et al.* 2016).

SPECIMENS IN COLLECTIONS. — CNHE (6362).

NOTE

The records of this monogenean species in *O. aureus* and *V. fenestra* of Yucatán, and in *O. niloticus* of Veracruz, attributed by Kohn *et al.* (2006) to Jiménez-García *et al.* (2001) do not correspond to the information presented by Jiménez-García *et al.* (2001).

*Clavunculus bifurcatus* (Mizelle, 1941)\*

*Actinocleidus bifurcatus* Mizelle, 1941: 102.

*Clavunculus bifurcatus* – Mizelle *et al.* 1956: 165.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nuevo León**. Presa El Cuchillo (Solidaridad): *Micropterus salmoides* (Galavíz-Silva *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (9824).

*Clavunculus bursatus* (Mueller, 1936)\*

*Ancyrocephalus bursatus* Mueller, 1936a: 71.

*Actinocleidus bursatus* – Mueller 1937: 211.

*Clavunculus unguis* Mizelle, Stokely, Jaskoski, Seamster & Monaco, 1956: 151.

*Clavunculus bursatus* – Mizelle *et al.* 1956: 165.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nuevo León**. Presa Rodrigo Gómez (La Boca), Presa Sombreretillo, Laguna de Salinillas, Presa El Cuchillo (Solidaridad), Presa Cerro Prieto (Linares): *Micropterus salmoides* (Galavíz-Silva *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (9820).

REMARK

This material was recorded as *Clavunculus unguis* (Mizelle & Cronin, 1943), but according to Beverley-Burton (1986), this species is synonym of *C. bursatus*.

*Cleidodiscus bedardi* Mizelle, 1936\*

*Cleidodiscus bedardi* Mizelle, 1936: 797.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Durango**. Río Nazas (puente en la carretera Rodeo-Hidalgo de Parral, desviación a Abasolo): *Lepomis macrochirus* (Pérez-Ponce de León *et al.* 2010).

SPECIMENS IN COLLECTIONS. — CNHE (6363).

*Cleidodiscus* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Chiapas**. Loma del Pato (La Angostura): *Ictalurus meridionalis* (Pineda-López *et al.* 1985b); Presa Chocoasén: *I. meridionalis* (Ocaña-Nañez 1992).

**Hidalgo**. Lago de Tecocomulco: *Cyprinus carpio* (Alemán-García 2009).

**Morelos**. Río Amacuzac: *Ictalurus balsanus* (Caspeta-Mandujano *et al.* 2009).

**Tabasco**. Tenosique (Boca del Cerro): *I. meridionalis* (Del Río-Rodríguez 1994).

SPECIMENS IN COLLECTIONS. — COPA-UAEM (M-002).

*Cleidodiscus vancleavei* Mizelle, 1936†

*Cleidodiscus vancleavei* Mizelle, 1936: 795.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nuevo León**. Laguna de Salinillas: *Oreochromis aureus* (Escobar-González 1997).

SPECIMENS IN COLLECTIONS. — None.

DACTYLOGYRIDAE gen. sp.§

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Coahuila**. Cuatro Ciénegas: *Herichthys minckleyi*, *Etheostoma* sp. (Guajardo-Martínez 1984)\*\*.

**Guerrero**. Río Papagayo: *Astyanax aeneus* (Mora-Bonilla 2010).

**Guanajuato**. Presa Ignacio Allende: *Yuriria alta* (Jiménez-Cortes 2003)\*\*.



**Hidalgo.** Arroyo Tenango: *Xiphophorus* sp. (Salgado-Maldonado *et al.* 2004b)\*\*; Río San Pedro (Orizatlán): *Herichthys cyanoguttatus* (Aguilar-Castellanos 2002)\*\*.

**Jalisco.** Laguna El Jabalí: *Diapterus peruvianus* (Cabañas-Carranza 2001)\*\*.

**Oaxaca.** Presa de Temascal: *Petenia splendida* (Chávez-Soriano 1998)\*\*.

**Tabasco.** Laguna de las Ilusiones: *Vieja melanura* (Carballo-Cruz 1990)\*\*; Laguna Chiribital, Laguna Loncho: *P. splendida* (Reséndez-Medina & Salvadores 1983)\*\*.

**Veracruz.** Laguna de Alvarado: *Centropomus parallelus* (Cancela-Mora 1995)\*\*; Laguna La Mancha: *Diapterus rhombeus* (Téllez-Guzmán 1997)\*\*.

**Yucatán.** Laguna de Celestún: *Lutjanus synagris* (Sosa-Medina *et al.* 2015).

SPECIMENS IN COLLECTIONS. — None.

### *Dactylogyrus anchoratus* (Dujardin, 1845)\*

*Gyrodactylus anchoratus* Dujardin, 1845: 481.

*Dactylogyrus anchoratus* – Wagener 1857: 55.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Oasis Corralitos, Oasis Poza Larga: *Cyprinus carpio* (Méndez *et al.* 2010).

**Durango.** Canal de Riego en el poblado de Dolores Hidalgo: *Carassius auratus* (Pérez-Ponce de León *et al.* 2010).

SPECIMENS IN COLLECTIONS. — CNHE (6359, 7057-8).

### *Dactylogyrus dulkeiti* Bychowsky, 1936\*

*Dactylogyrus dulkeiti* Bychowsky, 1936: 437-482.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Morelos.** Centro Acuícola Atlacomulco: *Cyprinus carpio* (Caspeta-Mandujano *et al.* 2009).

**Durango.** Canal de Riego en el poblado de Dolores Hidalgo: *Carassius auratus* (Pérez-Ponce de León *et al.* 2010).

SPECIMENS IN COLLECTIONS. — CNHE (6360); COPA-UAEM (M-003).

### *Dactylogyrus extensus* Mueller & Van Cleave, 1932

*Dactylogyrus extensus* Mueller & Van Cleave, 1932: 98.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Oasis Corralitos: *Cyprinus carpio* (Méndez *et al.* 2010).

**Ciudad de México.** La Cantera Oriente (Reserva Ecológica del Pedregal de San Ángel): *C. carpio* (Mendoza-Palmero *et al.* 2007).

**Coahuila.** Centro Acuícola La Rosa: *C. carpio* (Galavíz-Silva *et al.* 1990; De Witt-Sepúlveda 1992).

**Durango.** Pozo San Fernando: *C. carpio* (Pérez-Ponce de León *et al.* 2010).

**Guanajuato.** Presa Ignacio Allende: *C. carpio* (Jiménez-Cortés 2003\*\*; present study).

**Nuevo León.** Centro Acuícola Salinillas: *Ictalurus punctatus* (De Witt-Sepúlveda 1992)\*\*; Laguna de Salinillas: *Micropterus salmoides* (Villanueva-Balboa 1993)\*\*; *I. punctatus* (Cano 1994)\*\*.

SPECIMENS IN COLLECTIONS. — CNHE (6296-8, 6951, 7117, 7718, 7121).

### *Dactylogyrus intermedius* Wegener, 1909\*

*Dactylogyrus intermedius* Wegener, 1909: 195-286.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Morelos.** Centro Acuícola Atlacomulco: *Carassius auratus*, *Cyprinus carpio* (Caspeta-Mandujano *et al.* 2009).

SPECIMENS IN COLLECTIONS. — COPA-UAEM (M-004).

### *Dactylogyrus minutus* Kulwiéc, 1927\*

*Dactylogyrus minutus* Kulwiéc, 1927: 113-144.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Ciudad de México.** La Cantera Oriente (Reserva Ecológica del Pedregal de San Ángel): *Cyprinus carpio* (Mendoza-Palmero *et al.* 2007).

**Guanajuato.** Presa Ignacio Allende: *C. carpio* (Jiménez-Cortés 2003).

SPECIMENS IN COLLECTIONS. — CNHE (6299, 9729).

### *Dactylogyrus* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Durango.** Poza en el arroyo Torreon, Puente Lajas 1, Río Nazas: *Gila conspersa* (Pérez-Ponce de León *et al.* 2010); Río Piaxtla (San Dimas): *Codoma ornata* (Aguilar-Aguilar *et al.* 2010).

**Estado de México.** Atlacomulco: *Cyprinus carpio* (present study).

**Guanajuato.** Rinconcillo (Ignacio Allende): *Yuriria alta* (present study); Río La Laja (Atotonilco), Río La Laja (La Cieneguita), Río La Laja (Presa Ignacio Allende), Río La Laja (Rincón de los Remedios), Río La Laja (Soria La Huerta): *Y. alta* (Salgado-Maldonado 2006).

**Guerrero.** Laguna de Tres Palos: *Cichlasoma trimaculatum*, *Mugil curema*, *Ariopsis guatemalensis* (García 1999)\*\*.

**Hidalgo.** Centro Acuícola Tezontepec: *C. carpio* (Pérez-Ponce de León *et al.* 1996); undetermined: *Ctenopharyngodon idella* (Flores-Crespo & Flores-Crespo 2003).

**Morelos.** Centro Acuícola Atlacomulco: *Carassius auratus*, *C. carpio*, *Pterygoplichthys multiradiatus* (Hernández-Ocampo *et al.* 2012); Centro Acuícola Cuautitla: *C. auratus*, *Poecilia sphenops* (Hernández-Ocampo *et al.* 2012); Centro Acuícola El Potrero: *C. auratus*, *Gymnocorymbus ternetzi* (Hernández-Ocampo *et al.* 2012); Centro Acuícola El Rodeo: *Oreochromis* sp. (Flores-Crespo *et al.* 1992); Centro Acuícola Zacatepec: *Oreochromis niloticus* (Flores-Crespo *et al.* 1992); ND: *C. idella* (Flores-Crespo & Flores-Crespo 2003).

**Michoacán.** ND: *Algansea lacustris* (Flores-Crespo & Flores-Crespo 2003).

**Tabasco.** El Recreo (Tenosique): *Eugerres mexicanus* (Hernández-Gómez *et al.* 2011); Río Muerto (Tacotalpa): *Thorichthys pasionis* (Contreras-Denis 1997)\*\*.

**Tamaulipas.** Acuacultivo Río Cristal de Xicoténcatl: *Ictalurus punctatus* (Rodríguez-Garza 2016); Presa Vicente Guerrero: *Micropterus salmoides* (Pérez-Ponce de León *et al.* 1996)\*\*.

**Undetermined.** Undetermined: *Agosia chrysogaster*, *Algansea tincella*, *Aztecula sallaei*, *C. ornata*, *Cyprinella formosa*, *Cyprinella garmani*, *G. conspersa*, *Gila nigrescens*, *Notropis chihuahua*, *Notropis nazas*, *Notropis stramineus*, *Tampichthys rasconis* (Price & Henderson 1969).

SPECIMENS IN COLLECTIONS. — CNHE (6952-55, 7127, 9730-2).

# REMARK

Specimens from Durango were identified as *Dactylogyrus* sp. 1 and *Dactylogyrus* sp. 2.

# NOTE

The records of *Dactylogyrus* sp. in *C. idella* from Michoacán, and those in *A. lacustris* from Morelos and Hidalgo are not found in the original reference (Flores-Crespo & Flores-Crespo 2003).

## *Dactylogyrus vastator* Nybelin, 1924\*

*Dactylogyrus vastator* Nybelin, 1924: 1.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Morelos.** Centro Acuícola Atlacomulco: *Carassius auratus*, *Cyprinus carpio* (Caspeta-Mandujano *et al.* 2009).

SPECIMENS IN COLLECTIONS. — COPA-UAEM (M-005).

## *Diaphorocleidus kabatai* (Molnar, Hanek & Fernando, 1974)

*Urocleidoides kabatai* Molnar, Hanek & Fernando, 1974: 918.

*Diaphorocleidus kabatai* – Jogunoori *et al.* 2004: 119.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Oaxaca.** Arroyo bajo el Puente Río San Marcos: *Astyanax fasciatus* (Mora-Bonilla 2010).

**Yucatán.** Cenote Chaamac, Cenote Dzonot Cervera: *Astyanax aeneus* (Mendoza-Franco *et al.* 2009b); Cenote Dzonot Cervera, Cenote Noc-choncunche: *A. fasciatus* (Mendoza-Franco *et al.* 1999);

SPECIMENS IN COLLECTIONS. — CNHE (6281).

# REMARK

The specimens collected by Mendoza-Franco *et al.* (1999), were identified as *Urocleidoides anops* and re-identified as *Diaphorocleidus kabatai* by Mendoza-Franco *et al.* (2009b). The material from Oaxaca was recorded as “*Dactylogyrus kabatai*”.

## *Enterogyrus cichlidarum* Paperna, 1963

*Enterogyrus cichlidarum* Paperna, 1963: 183-187.

HOSTS. — Actinopterygii (stomach).

GEOGRAPHIC DISTRIBUTION. — **Tabasco.** División Académica de Ciencias Agropecuarias (Centro), Centro Acuícola Municipal (Río Carrizal): *Oreochromis niloticus* (Texta-Camacho 2003)\*\*; Centro Acuícola del Municipio de Centro: *O. niloticus* (López-Jiménez 2001).

SPECIMENS IN COLLECTIONS. — None.

# REMARK

This species is referred as *Enterogyrus niloticus* Eid & Negm, 1987 in López-Jiménez (2001), Texta-Camacho (2003), and

in Kohn *et al.* (2006); however, *E. niloticus* was synonymized with *E. cichlidarum* by Khidr (1990). Synonymy between the two species was validated recently by Pariselle & Euzet (2009).

# NOTE

The host of this monogenean species in Centro Acuícola del Municipio de Centro, Tabasco is *O. niloticus*, not *O. aureus* as pointed out Kohn *et al.* (2006).

## *Enterogyrus malmbergi* Bilong-Bilong, 1988

*Enterogyrus malmbergi* Bilong-Bilong, 1988: 52.

HOSTS. — Actinopterygii (intestine).

GEOGRAPHIC DISTRIBUTION. — **Tabasco.** Laguna Santa Anita: *Thorichthys callolepis* (Jiménez-García *et al.* 2001).

**Veracruz.** Centro Acuícola en Medellín: *Oreochromis* sp. (Montoya-Mendoza *et al.* 2016).

**Yucatán.** CINVESTAV-Mérida: *Oreochromis niloticus* (Jiménez-García *et al.* 2001); twenty fish farms along Yucatán state: *O. niloticus* (Paredes-Trujillo *et al.* 2016).

SPECIMENS IN COLLECTIONS. — None.

# NOTE

The record from Tabasco was attributed to López-Jiménez (2001) by Kohn *et al.* (2006), but actually this record was made by Jiménez-García *et al.* (2001); likewise, host species in this Mexican state is *T. callolepis* not *O. niloticus* as referred by Kohn *et al.* (2006).

## *Enterogyrus* sp.

HOSTS. — Actinopterygii (stomach).

GEOGRAPHIC DISTRIBUTION. — **San Luis Potosí.** Undetermined: *Oreochromis mossambicus* (see Flores-Crespo & Flores-Crespo 2003).

SPECIMENS IN COLLECTIONS. — None.

## *Ergenstrema* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Laguna de Términos: *Symphurus plagiatus* (Rodríguez-González & Vidal-Martínez 2008).

SPECIMENS IN COLLECTIONS. — None.

## *Euryhaliotrema amydrum* Kritsky & Bakenhaster, 2011\*

*Euryhaliotrema amydrum* Kritsky & Bakenhaster, 2011: 64.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** El Conchal, Laguna de Alvarado: *Archosargus probatocephalus* (Montoya-Mendoza *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (9692-3).

*Euryhaliotrema dunlapae* Kritsky & Bakenhaster, 2011\**Euryhaliotrema dunlapae* Kritsky & Bakenhaster, 2011: 62.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. El Conchal, Laguna de Alvarado: *Archosargus probatocephalus* (Montoya-Mendoza *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (9694-5).

*Euryhaliotrema longibaculum* (Zhukov, 1976)*Haliotrema longibaculum* Zhukov, 1976: 39.*Euryhaliotrema longibaculum* – Kritsky & Boeger 2002: 11.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Golfo de Campeche: *Lutjanus mahogoni*, *Lutjanus synagris* (Zhukov 1976).**Veracruz**. Arrecife Santiaguillo: *L. synagris* (Montoya-Mendoza *et al.* 2016).SPECIMENS IN COLLECTIONS. — CNHE (10221); USNM (91427); Undetermined <sup>(H, P)</sup>.*Euryhaliotrema mehen*

(Soler-Jiménez, García-Gasca &amp; Fajer-Ávila, 2012)\*

*Euryhaliotrematoides mehen* Soler-Jiménez, García-Gasca & Fajer-Ávila, 2012: 115.*Euryhaliotrema mehen* – Kritsky 2012b: 231.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sinaloa**. Mazatlán (**Cerritos**): *Lutjanus guttatus* (Soler-Jiménez *et al.* 2012); Mazatlán (Isla de la Piedra): *L. guttatus* (Soler-Jiménez *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (7290, 7545); USNM (104737-104740).

## REMARK

This species was described as *Euryhaliotrematoides mehen*, but Kritsky (2012b) considered *Euryhaliotrematoides* as a synonym of *Euryhaliotrema*. In addition, this author pointed out that the only criteria for separating *E. mehen* from *E. longibaculum* are the respective geographic and host ranges. Previous records of this species were made as *Euryhaliotrema* sp., and *Euryhaliotrematoides* sp., by Del Río-Zaragoza *et al.* (2010) and by Soler-Jiménez & Fajer-Ávila (2012), respectively.

*Euryhaliotrema perezponcei*

García-Vargas, Fajer-Ávila &amp; Lamothe-Argumedo, 2008\*

*Euryhaliotrema perezponcei* García-Vargas, Fajer-Ávila & Lamothe-Argumedo, 2008: 63.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Lutjanus guttatus* (García-Vásquez *et al.* 2015a).**Nayarit**. Cruz de Huanacaxtle: *L. guttatus* (García-Vargas *et al.* 2008). **Sinaloa**. Mazatlán: *L. guttatus* (Fajer-Ávila *et al.* 2007; García-Vargas *et al.* 2008); Mazatlán (Isla de Piedra): *L. guttatus* (Soler-Jiménez *et al.* 2015).SPECIMENS IN COLLECTIONS. — CNHE (5732-3, 8356) <sup>(H, P)</sup>; HWML (48568-9) <sup>(P)</sup>.

## REMARK

The specimens of Fajer-Ávila *et al.* (2007) were identified as *Euryhaliotrema* sp.

*Euryhaliotrema sagmatum* Kritsky & Boeger, 2002*Euryhaliotrema sagmatum* Kritsky & Boeger, 2002: 11.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Bahía de Chamela**: *Umbrina xanti* (Kritsky & Boeger 2002).SPECIMENS IN COLLECTIONS. — CNHE (4015-6) <sup>(H, P)</sup>, HWML (16429) <sup>(P)</sup>, USNM (91422) <sup>(P)</sup>, MNHN 26HG (Tg157-Tg158) <sup>(P)</sup>.

## REMARK

This material was recorded as Ancyropocephalidae gen. sp. by Pérez-Ponce de León *et al.* (1999), and re-identified as *Euryhaliotrema sagmatum* by Kritsky & Boeger (2002).

*Euryhaliotrema torquacirrus* (Zhukov, 1976)*Haliotrema torquacirrus* Zhukov, 1976: 41.*Euryhaliotrema torquacirrus* – Kritsky & Boeger 2002: 11.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Golfo de Campeche: *Ocyurus chrysurus*, *Lutjanus synagris*, *Lutjanus mahogoni* (Zhukov 1976)\*\*.**Veracruz**. Arrecife Anegada de Afuera, Arrecife Isla de Enmedio: *O. chrysurus* (Montoya-Mendoza *et al.* 2014b), Arrecife Santiaguillo: *L. synagris* (Montoya-Mendoza *et al.* 2016).SPECIMENS IN COLLECTIONS. — CNHE (9144-5; 10223); USNM (91432); collection not indicated <sup>(H, P)</sup>.

## REMARK

The material from Campeche was recorded as *Haliotrema torquacirrus* by Zhukov (1976) and transferred to *Euryhaliotrema* by Kritsky & Boeger (2002).

*Euryhaliotrema tubocirrus* (Zhukov, 1976)*Haliotrema tubocirrus* Zhukov, 1976: 40.*Euryhaliotrema tubocirrus* – Kritsky & Boeger 2002: 11.

HOSTS. — Actinopterygii (gills).



GEOGRAPHIC DISTRIBUTION. — **Campeche**. Golfo de Campeche: *Lutjanus analis*, *Lutjanus apodus*, *Lutjanus cyanopterus*, *Lutjanus mahogoni*\*\*, *Lutjanus synagris*, *Rhomboplites aurorubens* (Zhukov 1976). **Veracruz**. Arrecife Santiaguillo: *Lutjanus campechanus* (Montoya-Mendoza *et al.* 2014a).

SPECIMENS IN COLLECTIONS. — CHCM (409); CNHE (8946-7, 10222); HWML (31184); USNM (91431); collection not indicated (H, P).

#### REMARK

The material from Campeche was recorded as *Haliotrema tubocirrus* by Zhukov (1976) and transferred to *Euryhaliotrema* by Kritsky & Boeger (2002).

### *Guavinella tropica*

Mendoza-Franco, Scholz & Cabañas-Carranza, 2003

*Guavinella tropica* Mendoza-Franco, Scholz & Cabañas-Carranza, 2003: 27.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Río San Nicolás (Laguna Chalcatepec): *Gobiomorus* sp. (Mendoza-Franco *et al.* 2003).

**Tabasco**. Laguna El Rosario: *Gobiomorus dormitor* (Texta-Camacho 2003)\*\*; Pantanos de Centla: *G. dormitor* (Texta-Camacho 2003\*\*); Salgado-Maldonado *et al.* 2005b).

**Veracruz**. Arroyo Balzapote (Los Tuxtlas): *G. dormitor* (Mendoza-Franco *et al.* 2003; Salgado-Maldonado *et al.* 2005a); Río Frío, Río La Palma, Tlacotalpan: *G. dormitor* (Salgado-Maldonado *et al.* 2005a); Río Máquinas: *G. dormitor* (Mendoza-Franco *et al.* 2003; Salgado-Maldonado *et al.* 2005a); Río Papaloapan (Tlacotalpan), Río San Juan Bautista (Tlacotalpan): *G. dormitor* (Mendoza-Franco *et al.* 2003).

SPECIMENS IN COLLECTIONS. — CHCM (434-5)<sup>(P)</sup>; CNHE (4423-4, 4501, 6305, 6306, 6175, 7113)<sup>(H, P)</sup>; IPCAS (M-377)<sup>(P)</sup>; NHMUK (2002.4.4.1-2)<sup>(P)</sup>; USNM (91728)<sup>(P)</sup>.

### *Haliotrema cirrhitusi*

Mendoza-Franco & Violante-González, 2011\*

*Haliotrema cirrhitusi* Mendoza-Franco & Violante-González, 2011: 800.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Cantiles de Mozimba (Acapulco): *Cirrhitus rivulatus* (Mendoza-Franco & Violante-González 2011).

SPECIMENS IN COLLECTIONS. — CNHE (7674)<sup>(P)</sup>; USNM (104434-5)<sup>(H, P)</sup>.

### *Haliotrema lactophrys* (MacCallum, 1915)

*Diplectanum lactophrys* MacCallum, 1915: 399.

*Ancyrocephalus lactophrys* – Johnston & Tiegs 1922: 95.

*Haliotrema lactophrys* – Vala *et al.* 1982: 1132.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Undetermined: *Acanthostracion quadricornis* (Vala *et al.* 1982).

SPECIMENS IN COLLECTIONS. — None.

### *Haliotrema pacificum* (Mizelle & Kritsky, 1969)

*Parahaliotrema pacificus* Mizelle & Kritsky, 1969: 426.

*Haliotrema pacificum* – Vala *et al.* 1982: 1132.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California**. Undetermined: *Johnrandallia nigrirostris* (Mizelle & Kritsky 1969).

SPECIMENS IN COLLECTIONS. — USNM (070975)<sup>(H, P)</sup>.

#### NOTE

This species was listed by Kohn *et al.* (2006) under its original denomination: *Parahaliotrema pacificus*.

### *Haliotrema pollexinus*

Mendoza-Franco & Violante-González, 2011\*

*Haliotrema pollexinus* Mendoza-Franco & Violante-González, 2011: 802.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Cantiles de Mozimba (Acapulco): *Cirrhitus rivulatus* (Mendoza-Franco & Violante-González 2011).

SPECIMENS IN COLLECTIONS. — CNHE (7675)<sup>(P)</sup>; USNM (104436-7)<sup>(H, P)</sup>.

### *Haliotrema* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California**. Ensenada: *Semioscyphus pulcher* (present study).

**Baja California Sur**. Bahía de Santa Inés: *Xenistius californiensis* (Payne 1991)\*\*.

**Quintana Roo**. Bahía de Chetumal: *Eugerres plumieri* (Aguirre-Macedo *et al.* 2007).

SPECIMENS IN COLLECTIONS. — CHCM (409); HWML (31184).

### *Haliotrematoides cornigerum* (Zhukov, 1976)

*Haliotrema cornigerum* Zhukov, 1976: 33.

*Haliotrematoides cornigerum* – Kritsky *et al.* 2009: 7.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Bahía de Campeche: *Lutjanus mahogoni*, *Lutjanus synagris* (Zhukov 1976).

**Veracruz**. Arrecife Santiaguillo: *L. synagris* (Montoya-Mendoza *et al.* 2016).

SPECIMENS IN COLLECTIONS. — Collection not indicated <sup>(H, P)</sup>; CNHE (10217); USNM (91427, 91429-30)

#### REMARK

The record of *H. cornigerum* as parasite of *Lutjanus guttatus* in Mazatlán, published by Del Río-Zaragoza *et al.* (2010), was a tentative identification, invalidated posteriorly by Soler-Jiménez (pers. comm.).

### *Haliotrematoides gracilihamus* (Zhukov, 1976)

*Haliotrema gracilihamus* Zhukov, 1976: 37.

*Haliotrematoides gracilihamus* – Kritsky *et al.* 2009a: 32.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Bahía de Campeche: *Lutjanus apodus*, *Lutjanus jocu* (Zhukov 1976). **Quintana Roo.** Isla Mujeres: *L. apodus* (Kritsky *et al.* 2009a); Sur del Estado: *Lutjanus griseus* (González-Solís 2007 in Kritsky *et al.* 2009a).

SPECIMENS IN COLLECTIONS. — Collection not indicated <sup>(H, P)</sup>; USNM (101361).

### *Haliotrematoides guttati*

(García-Vargas, Fajer-Ávila & Lamothe-Argumedo, 2008)\*

*Haliotrema guttati* García-Vargas, Fajer-Ávila & Lamothe-Argumedo, 2008: 62.

*Haliotrematoides guttati* – Kritsky *et al.* 2009: 37.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Lutjanus guttatus* (García-Vásquez *et al.* 2015a). **Nayarit.** Cruz de Huanacastle: *L. guttatus* (García-Vargas *et al.* 2008). **Sinaloa.** Mazatlán: *L. guttatus* (García-Vargas *et al.* 2008; Soler-Jiménez & Fajer-Ávila 2012); Mazatlán (Isla de Piedra): *L. guttatus* (Soler-Jiménez *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (5730-1, 8354); USNM (101361).

#### REMARK

Kritsky *et al.* (2009a) pointed out that *H. guttati* is a possible synonym of *Haliotrematoides heteracantha*.

### *Haliotrematoides heteracantha* (Zhukov, 1976)

*Haliotrema heteracantha* Zhukov, 1976: 45.

*Haliotrematoides heteracantha* – Kritsky *et al.* 2009: 42.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Bahía de Campeche: *Lutjanus apodus*, *Lutjanus mahogoni*, *Lutjanus synagris*, *Ocyurus chrysurus* (Zhukov 1976).

**Veracruz.** Arrecife Anegada de Afuera, Arrecife Isla de Enmedio: *O. chrysurus* (Montoya-Mendoza *et al.* 2014b), Arrecife Santiaguillo: *L. synagris* (Montoya-Mendoza *et al.* 2016).

SPECIMENS IN COLLECTIONS. — CNHE (9146-7; 10218); collection not indicated <sup>(H, P)</sup>.

#### REMARK

The record of *H. heteracantha* as parasite of *L. guttatus* in Mazatlán, published by Del Río-Zaragoza *et al.* (2010), was re-identified as *Haliotrematoides spinatus* by Soler-Jiménez (pers. comm.).

### *Haliotrematoides longihamus* (Zhukov, 1976)

*Haliotrema longihamus* Zhukov, 1976: 35.

*Haliotrematoides longihamus* – Kritsky *et al.* 2009: 43.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Bahía de Campeche: *Lutjanus analis*, *Lutjanus mahogoni*\*, *Lutjanus synagris* (Zhukov 1976).

**Veracruz.** Arrecife Santiaguillo: *L. synagris* (Montoya-Mendoza *et al.* 2016).

SPECIMENS IN COLLECTIONS. — CNHE (10219); collection not indicated <sup>(H, P)</sup>.

#### REMARK

The record of *H. longihamus* as parasite of *Lutjanus guttatus* in Mazatlán, published by Del Río-Zaragoza *et al.* (2010), was a re-identified as *Haliotrematoides plectridium* by Soler-Jiménez (pers. comm.).

### *Haliotrematoides magnigastrohamus* (Zhukov, 1976)

*Haliotrema magnigastrohamus* Zhukov, 1976: 38.

*Haliotrematoides magnigastrohamus* – Kritsky *et al.* 2009: 40.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Bahía de Campeche: *Lutjanus analis*, *Lutjanus mahogoni*, *Lutjanus synagris*, *Ocyurus chrysurus* (Zhukov 1976).

**Veracruz.** Arrecife Santiaguillo: *L. synagris* (Montoya-Mendoza *et al.* 2016).

SPECIMENS IN COLLECTIONS. — CNHE (10220); collection not indicated <sup>(H, P)</sup>.

### *Haliotrematoides mediohamus* (Zhukov, 1983)

*Haliotrema mediohamus* Zhukov, 1983: 59.

*Haliotrematoides mediohamus* – Kritsky *et al.* 2009: 48.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Bahía de Campeche: *Calamus bajonado*, *Calamus calamus* (Zhukov 1983).

SPECIMENS IN COLLECTIONS. — Collection not indicated <sup>(H, P)</sup>.

*Haliotrematoides overstreeti* Kritsky & Bullard, 2009\*

*Haliotrematoides overstreeti* Kritsky & Bullard, 2009 in Kritsky *et al.* (2009a): 33.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Bahía de Campeche: *Lutjanus cyanopterus* (Kritsky *et al.* 2009a).

SPECIMENS IN COLLECTIONS. — NHMUK (2008.11.19.55-56); USNM (101362-3) (H, P).

*Haliotrematoides parvicirrus* (Zhukov, 1983)

*Haliotrema parvicirrus* Zhukov, 1983: 59.

*Haliotrematoides parvicirrus* – Kritsky *et al.* 2009: 48.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Bahía de Campeche: *Calamus bajonado*, *Calamus calamus* (Zhukov 1983).

SPECIMENS IN COLLECTIONS. — Collection not indicated (H, P).

*Haliotrematoides plectridium*  
Kritsky & Mendoza-Franco, 2009\*

*Haliotrematoides plectridium* Kritsky & Mendoza-Franco, 2009 in Kritsky *et al.* (2009a): 37.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Lutjanus guttatus* (García-Vásquez *et al.* 2015a).  
**Sinaloa**. Mazatlán: *L. guttatus* (Soler-Jiménez & Fajer-Ávila 2012).

SPECIMENS IN COLLECTIONS. — CNHE (7292, 8353).

*Haliotrematoides spinatus*  
Kritsky & Mendoza-Franco, 2009\*

*Haliotrematoides spinatus* Kritsky & Mendoza-Franco in Kritsky *et al.*, 2009a: 31.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Lutjanus guttatus* (García-Vásquez *et al.* 2015a).  
**Sinaloa**. Mazatlán: *L. guttatus* (Soler-Jiménez & Fajer-Ávila 2012).

SPECIMENS IN COLLECTIONS. — CNHE (7291, 8355).

*Haliotrematoides striatohamus* (Zhukov, 1981)

*Haliotrema striatohamus* Zhukov, 1981: 179.

*Haliotrematoides striatohamus* – Mendoza-Franco *et al.* 2009c: 1360.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Off coast of Campeche: *Haemulon aureolineatum*, *Haemulon carbonarium*, *Haemulon flavo-*

*lineatum*, *Haemulon melanurum*, *Haemulon plumierii*, *Haemulon sciurus* (Zhukov 1981).

**Quintana Roo**. Bacalar Chico: *H. sciurus* (Mendoza-Franco *et al.* 2009c); La Aguada: *H. plumierii* (Mendoza-Franco *et al.* 2009c); Xcalak: *H. aureolineatum* (Mendoza-Franco *et al.* 2009c).

SPECIMENS IN COLLECTIONS. — CNHE (6585-7); IPCAS (M481); USNM (01534-6); the type material was deposited at Zoological Institute, USSR Academy of Sciences.

*Hamatopeduncularia bagre* Hargis, 1955<sup>+</sup>

*Hamatopeduncularia bagre* Hargis, 1955: 188.

*Hargitrema bagre* – Tripathi 1959: 1-149.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Laguna La Mancha: *Ariopsis felis* (Aguilar-Sánchez 1998).

SPECIMENS IN COLLECTIONS. — None.

*Haploleidus dispar* (Mueller, 1936)\*

*Onchocleidus dispar* Mueller, 1936a: 68.

*Haploleidus dispar* – Mueller 1937: 209.

*Urocleidus dispar* – Mizelle & Hughes 1938: 349.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Durango**. Presa en el pueblo Amado Nervo, Plan de Ayala: *Lepomis macrochirus* (present study).  
**Guanajuato**. Río La Laja: *Micropterus salmoides* (present study); Río La Laja (Presa Ignacio Allende): *L. macrochirus* (Salgado-Maldonado 2006).

SPECIMENS IN COLLECTIONS. — CNHE (6479-80, 6509, 7124).

REMARK

The relocation of this species in the genus *Onchocleidus* has been proposed by Wheeler & Beverley-Burton (1989).

*Haploleidus furcatus* Mueller, 1937\*

*Haploleidus furcatus* Mueller, 1937: 210.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nuevo León**. Presa El Cuchillo (Solidaridad): *Micropterus salmoides* (Galavíz-Silva *et al.* 2015 ).

SPECIMENS IN COLLECTIONS. — CNHE (9823).

*Heteropriapulus heterotylus*  
(Jogunoori, Kritsky & Venkatanarasaiah, 2004)\*

*Heterotylus heterotylus* Jogunoori, Kritsky & Venkatanarasaiah, 2004: 117.

*Heteropriapulus heterotylus* – Kritsky 2007: 233.

HOSTS. — Actinopterygii (gills).



GEOGRAPHIC DISTRIBUTION. — **Campeche**. Río Palizada (Área de Protección de flora y fauna de la Laguna de Términos): *Pterygoplichthys disjunctivus*, *Pterygoplichthys pardalis* (Rodríguez-Santiago *et al.* 2015, 2016).

SPECIMENS IN COLLECTIONS. — CNHE (9083-4).

*Heteropriapulius* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Chiapas**. Río Ixcán: *Pterygoplichthys pardalis* (Mendoza-Franco *et al.* 2012).

SPECIMENS IN COLLECTIONS. — CNHE (8281).

REMARK

According to Mendoza-Franco *et al.* (2012), these specimens are similar to *Heteropriapulius heterotylus* (Jogunoori, Kritsky & Venkatanarasiah, 2004), making necessary to analyze more specimens to confirm their identity.

*Ligictaluridus floridanus* (Mueller, 1936)

*Cleidodiscus floridanus* Mueller, 1936b: 463.

*Ligictaluridus floridanus* – Beverley-Burton 1984: 5-209.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Coahuila**. Centro Acuícola La Rosa: *Cyprinus carpio*, *Ictalurus punctatus* (Galavíz-Silva *et al.* 1990)\*\*. **Nuevo León**. Centro Acuícola Salinillas: *C. carpio* (De Witt-Sepúlveda 1992), *I. punctatus* (Guajardo-Pérez 1988; Galavíz-Silva *et al.* 1990); Laguna Salinillas: *C. carpio* (De Witt-Sepúlveda 1992)\*\*; *I. punctatus* (Cano 1994), *Micropterus salmoides* (Villanueva-Balboa 1993)\*\*; Presa Cerro Prieto (Linares), Presa El Cuchillo (Solidaridad), Presa Rodrigo Gómez (La Boca): *I. punctatus* (Galavíz-Silva *et al.* 2013).

**Tamaulipas**. Centro Acuícola Santo Tomás (Abasolo): *I. punctatus* (Rábago-Castro *et al.* 2014); Centro Acuícola Vicente Guerrero: *C. carpio* (De Witt-Sepúlveda 1992)\*\*; Emilio Portes Gil, La Loba, Pedro J. Méndez: *I. punctatus* (Rábago-Castro 2010); Presa María Soto La Marina, Río Soto La Marina: *I. punctatus* (Rábago-Castro *et al.* 2011). *Ictalurus punctatus* (Guajardo-Pérez 1988; Galavíz-Silva *et al.* 1990).

**Veracruz**. Río Pantepec: *Ictalurus* sp. (present study).

SPECIMENS IN COLLECTIONS. — CNHE (6304, 7520-1).

REMARK

With exception of the specimens recorded by Rábago-Castro *et al.* (2011), all other records were identified as *Cleidodiscus floridanus* Mueller, 1936, but this species was transferred to *Ligictaluridus* by Beverley-Burton (1984).

NOTE

Kohn *et al.* (2006) listed this species as member of *Cleidodiscus*.

*Ligictaluridus mirabilis* (Mueller, 1937)

*Cleidodiscus mirabilis* Mueller, 1937: 213.

*Ligictaluridus mirabilis* – Klassen & Beverley-Burton 1985: 725.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Durango**. Río Nazas (poblado de San Rafael Jicorica): *Ictalurus* cf. *pricei* (Pérez-Ponce de León *et al.* 2010). **Tabasco**. El Recreo (Tenosique): *Ictalurus furcatus* (Texta-Camacho 2003)\*\*; Río San Pedro: *Ictalurus meridionalis* (Pineda-López *et al.* 1985a; López-Jiménez 2001).

SPECIMENS IN COLLECTIONS. — CNHE (6478).

REMARK

Specimens of Pineda-López *et al.* (1985a) were recorded as “Dactylogiridos” and reidentified as *L. mirabilis* by Salgado-Maldonado *et al.* (2005b).

*Ligictaluridus pricei* (Mueller, 1936)\*

*Cleidodiscus pricei* Mueller, 1936b: 464.

*Ligictaluridus pricei* – Beverley-Burton 1984: 40.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Durango**. Río Nazas (poblado de Nazas), Río Nazas (poblado de San Rafael Jicorica): *Ictalurus* cf. *pricei* (Pérez-Ponce de León *et al.* 2010).

SPECIMENS IN COLLECTIONS. — CNHE (6481-2).

*Ligophorus mugilinus* (Hargis, 1955)\*

*Pseudohaliotrema mugilinus* Hargis, 1955: 33.

*Ligophorus mugilinus* – Euzet & Suriano 1977: 808.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Laguna de Coyuca: *Mugil curema* (Violante-González & Aguirre-Macedo 2007); Laguna de Tres Palos: *M. curema* (Violante-González *et al.* 2007).

**Sinaloa**. Estero Teacapán, Estero Urias: *M. curema* (Fajer-Ávila *et al.* 2006).

SPECIMENS IN COLLECTIONS. — None.

REMARK

The material of Fajer-Ávila *et al.* (2006) from Sinaloa was recorded as *Haliotrema mugilinus*, because these authors were not aware that Euzet & Suriano (1977) transferred it to the genus *Ligophorus*. All these records are doubtful because in accordance with Sarabeev *et al.* (2005), the distribution of *L. mugilinus* is restricted to the western Atlantic and Gulf of Mexico.

*Ligophorus* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Quintan Roo.** Xcalak: *Mugil cephalus* (Hernández-Olascoaga & González-Solís 2006).

SPECIMENS IN COLLECTIONS. — None.

*Ligophorus vanbenedeni* (Parona & Perugia, 1890)<sup>§</sup>

*Ancyrocephalus vanbenedeni* Parona & Perugia, 1890: 59-70.

*Haliotrema vanbenedeni* – Young 1968: 41-75.

*Ligophorus vanbenedeni* – Euzet & Suriano 1977: 802.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Mugil curema* (Pérez-Ponce de León *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CNHE (3037).

*Ligophorus yucatanensis* Rodríguez-González, Miguez, Llopis & Balbuena, 2015\*

*Ligophorus yucatanensis* Rodríguez-González, Miguez, Llopis & Balbuena, 2015: 768.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Yucatán.** Laguna de Celestún: *Mugil cephalus* (Rodríguez-González *et al.* 2015).

SPECIMENS IN COLLECTIONS. — NHMUK (2014.5.1.1-2.3) (H, P).

*Mexicana bychowskyi* Caballero & Bravo-Hollis, 1959

*Mexicana bychowskyi* Caballero & Bravo-Hollis, 1959: 167.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero.** Zihuatanejo: *Haemulon maculicauda* (Gómez del Prado 1977)\*\*.

**Jalisco.** Bahía de Banderas: “Truchita de la familia Sciaenidae” (Caballero & Bravo-Hollis 1959); Bahía de Chamela: *Microlepidotus brevipinnis* (Aranda-Cruz 2006).

SPECIMENS IN COLLECTIONS. — CNHE (89-90, 3221).

NOTE

Kohn *et al.* (2006) included this species in Tetraonchidae.

*Mexicana littoralis* Caballero & Bravo-Hollis, 1961

*Mexicana littoralis* Caballero & Bravo-Hollis, 1961a: 210.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Haemulon scudderii* (Lamothe-Argumedo *et al.* 1997b).

**Sonora.** Bahía de Guaymas: *Haemulon sexfasciatum* (Caballero & Bravo-Hollis 1961a).

SPECIMENS IN COLLECTIONS. — CNHE (83, 85, 325) (H, P).

NOTE

Kohn *et al.* (2006) included this species in Tetraonchidae.

*Mexicotrema bychowskyi* Lamothe-Argumedo, 1969

*Mexicotrema bychowskyi* Lamothe-Argumedo, 1969: 148.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Oaxaca.** Laguna de Chila: *Centroponus nigrescens* (Lamothe-Argumedo 1969).

SPECIMENS IN COLLECTIONS. — CNHE (236-7) (H, P).

*Neotetraonchus bravohollisae* Paperna, 1977<sup>§</sup>

*Neotetraonchus bravohollisae* Paperna, 1977: 110.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo.** Bellavista, Nict-echan, Punta Calera (Bahía de Chetumal), Punta Verde (Bahía de Chetumal), Ramonal (Bahía de Chetumal): *Ariopsis assimilis* (Vidal-Martínez *et al.* 2003), Bahía de Chetumal: *A. assimilis* (Aguirre-Macedo *et al.* 2007).

**Yucatán.** Puerto de Celestún, Telchac Puerto: *Ariopsis felis* (Kritsky *et al.* 2009b).

SPECIMENS IN COLLECTIONS. — CHCM (410); CHCM (410); CNHE (5714, 6795, 6786); NHMUK (2009.3.13.3-6); USNM (101613-15).

REMARK

The inclusion of this species in Dactylogyridae follows Kritsky *et al.* (2009b).

*Neotetraonchus bychowskyi* Bravo-Hollis, 1968

*Neotetraonchus bychowskyi* Bravo-Hollis, 1968: 14.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Oaxaca.** Laguna de Chila: *Ariopsis seemanni* (Bravo-Hollis 1968).

**Sinaloa.** Mazatlán: *A. seemanni* (Gopar-Merino 2002)\*\*.

SPECIMENS IN COLLECTIONS. — CNHE (193-94, 4552) (H, P).

REMARK

The inclusion of this species in Dactylogyridae follows Kritsky *et al.* (2009b).

*Neotetraonchus felis* (Hargis, 1955)\*

*Ancyrocephalus felis* Hargis, 1955: 186.

*Neotetraonchus felis* – Paperna 1977: 111.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Yucatán**. Puerto de Celestún, Telchac Puerto: *Ariopsis felis* (Kritsky *et al.* 2009b).

SPECIMENS IN COLLECTIONS. — CNHE (6788); NHMUK (2009.3.13.11-13); USNM (101618).

#### REMARK

The inclusion of this species in Dactylogyridae follows Kritsky *et al.* (2009b).

### *Neotetraonchus* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Colima**. Laguna de Amela: *Ariopsis seemanni* (Ramírez-Lezama 1995)\*\*; **Guerrero**. Laguna de Coyuca: *Ariopsis guatemalensis* (Violante-González & Aguirre-Macedo 2007).

SPECIMENS IN COLLECTIONS. — CNHE (6265).

#### REMARK

The inclusion of this taxon in Dactylogyridae follows Kritsky *et al.* (2009b).

### *Neotetraonchus vegrandis* Kritsky, Mendoza-Franco, Bullard & Vidal-Martínez, 2009\*

*Neotetraonchus vegrandis* Kritsky, Mendoza-Franco, Bullard & Vidal-Martínez, 2009b: 6.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Laguna de Tres Palos: *Ariopsis guatemalensis* (Gopar-Merino 2002; Kritsky *et al.* 2009b; Violante-González *et al.* 2009).

SPECIMENS IN COLLECTIONS. — CNHE (4551, 6264, 6787)<sup>(P)</sup>, NHMUK (2009.3.13.7-10); USNM (101616-7)<sup>(H, P)</sup>.

#### REMARK

Recorded as *Neotetraonchus* sp. by Violante-González *et al.* (2009) and as *N. bychowskyi* by Gopar-Merino (2002) in the type host and locality. The inclusion of this species in Dactylogyridae follows Kritsky *et al.* (2009b).

### *Octouncuhaptor eugerrei* Mendoza-Franco, Roche & Torchin, 2008\*

*Octouncuhaptor eugerrei* Mendoza-Franco, Roche & Torchin, 2008a: 176.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo**. Bahía de Chetumal, Laguna Guerrero, Laguna Salada: *Eugerres plumieri* (González-Solís & Sánchez-Ceballos 2012).

SPECIMENS IN COLLECTIONS. — ECOPA (083).

### *Onchocleidus principalis* Mizelle, 1936\*

*Onchocleidus principalis* Mizelle, 1936: 798.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guanajuato**. Río La Laja (Empalme Escobedo): *Micropterus salmoides* (Salgado-Maldonado 2006).

SPECIMENS IN COLLECTIONS. — CNHE (7125).

### *Onchocleidus spiralis* Mueller, 1937\*

*Onchocleidus spiralis* Mueller, 1937: 209.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Durango**. Río Nazas (puente en la carretera Rodeo-Hidalgo de Parral, desviación a Abasolo): *Lepomis macrochirus* (Pérez-Ponce de León *et al.* 2010).

SPECIMENS IN COLLECTIONS. — CNHE (6512).

### *Palombitrema heteroancistrum* Price & Bussing, 1968

*Palombitrema heteroancistrum* Price & Bussing, 1968: 54. — Suriano 1997: 8.

*Uroleidoides heteroancistrum* – Mendoza-Franco *et al.* 1999: 270.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Chiapas**. Río La Fortuna, Río Vado Ancho: *Astyanax aeneus* (Salgado-Maldonado *et al.* 2011a).

**Tabasco**. Pantanos de Centla: *Astyanax fasciatus* (López-Jiménez 2001), *Mayaheros urophthalmus* (Salgado-Maldonado *et al.* 2005b); Río San Pedro: *A. aeneus* (Salgado-Maldonado *et al.* 2005b).

**Yucatán**. Cenote Chaamac, Cenote Dzont Cervera: *A. aeneus* (Mendoza-Franco *et al.* 2009b); Cenote Noc-choncunchey, Cenote San Gerardo: *A. fasciatus* (Mendoza-Franco *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CHCM (235); CNHE (2919, 6279); USNPC (86885).

#### REMARK

The specimens of Mendoza-Franco *et al.* (1999) were identified as *Uroleidoides heteroancistrum*, but this species was re-instated in the genus *Palombitrema* by Suriano (1997).

#### NOTE

Recorded as *Uroleidoides heteroancistrum* by Kohn *et al.* (2006).

### *Parancylodiscoides chaetodipteri* Caballero & Bravo-Hollis, 1960

*Parancylodiscoides chaetodipteri* Caballero & Bravo-Hollis, 1960: 197.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Oaxaca**. Salina Cruz: *Chaetodipterus zonatus* (Caballero & Bravo-Hollis 1960).

SPECIMENS IN COLLECTIONS. — CNHE (92, 93)<sup>(H, P)</sup>.



# REMARK

The genus *Parancylodiscoides* was synonymised with *Pseudohaliotrematoides* by Yamaguti (1963), but the validity of this genus has been supported by Young (1967), Cezar *et al.* (1999), Kritsky *et al.* (2007), Lim & Gibson (2009), and recently by Kritsky (2012a).

# NOTE

The name "*Parahaliotrematoides chaetodipteri*" referred by Kohn *et al.* (2006) for this species is invalid, and is probably based in a *lapsus* made by Yamaguti (1963).

## *Parancylodiscoides macrobaculum* (Zhukov, 1983)

*Haliotrema macrobaculum* Zhukov, 1983: 57.

*Parancylodiscoides macrobaculum* – Kritsky & Bakenhaster 2016: 260.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Bahía de Campeche: *Epinephelus morio*, *Mycteroperca microlepis*, *Mycteroperca venenosa* (Zhukov 1983).

SPECIMENS IN COLLECTIONS. — Collection not indicated (H, P).

## *Parasciadicleithrum octofasciatum* Mendoza-Palmero, Blasco, Hernández-Mena & Pérez-Ponce de León, 2017\*

*Parasciadicleithrum octofasciatum* Mendoza-Palmero, Blasco-Costa, Hernández-Mena & Pérez-Ponce de León, 2017: 155.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Chiapas**. Ejido Reforma Agraria (Marqués de Comillas): *Rocio octofasciata* (Mendoza-Palmero *et al.* 2017).

SPECIMENS IN COLLECTIONS. — CNHE (10024-5) (H, P); MHNG (94132-3); IPCAS (564).

## *Pavanelliella scaphiocotylus* Kritsky & Mendoza-Franco, 2003

*Pavanelliella scaphiocotylus* Kritsky & Mendoza-Franco, 2003: 137.

HOSTS. — Actinopterygii; Nasal cavity.

GEOGRAPHIC DISTRIBUTION. — **Yucatán**. Cenote Ixin-há: *Rhamdia guatemalensis* (Kritsky & Mendoza-Franco 2003).

SPECIMENS IN COLLECTIONS. — CHCM (451) (P); CHNE (4523-24) (H, P); HWML (16755) (P); USNM (92431-32) (P).

## *Pseudempleurosoma carangis* Yamaguti, 1965\*

*Pseudempleurosoma carangis* Yamaguti, 1965: 64.

HOSTS. — Actinopterygii (rectum).

GEOGRAPHIC DISTRIBUTION. — **Yucatán**. Chuburná, Progreso: *Sphoeroides testudineus* (Mendoza-Franco & Vidal-Martínez 2011).

SPECIMENS IN COLLECTIONS. — CNHE (6282).

## *Pseudempleurosoma gibsoni* Santos, Mourão & Cardenas, 2001\*

*Pseudempleurosoma gibsoni* Santos, Mourão & Cardenas, 2001: 215.

HOSTS. — Actinopterygii; Pyloric caeca.

GEOGRAPHIC DISTRIBUTION. — **Yucatán**. Granja Ixoye (Dzilam de Bravo): *Rachycentron canadum* (Mendoza-Franco & Vidal-Martínez 2011).

SPECIMENS IN COLLECTIONS. — CHCM (259); CNHE (8082); USNM (104869).

## *Pseudohaliotrema* sp.†

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tamaulipas**. Laguna Madre (Punta Piedra): *Archosargus probatocephalus* (Iruegas-Buentello 1999).

SPECIMENS IN COLLECTIONS. — None.

## *Pseudotetrancistrum skrjabini* Caballero & Bravo-Hollis, 1961

*Pseudotetrancistrum skrjabini* Caballero & Bravo-Hollis, 1961b: 60.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sonora**. Bahía de San Carlos: *Microlepidotus inornatus* (Caballero & Bravo-Hollis 1961b).

SPECIMENS IN COLLECTIONS. — CNHE (291-2) (H, P).

## *Salsuginus angularis* (Mueller, 1934)

*Urocleidus angularis* Mueller, 1934: 369.

*Salsuginus angularis* – Beverley-Burton 1984: 53.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Durango**. Manantial Abraham González: *Characodon lateralis* (Martínez-Aquino *et al.* 2014); *Cyprinodon meeki* (Martínez-Aquino & Aguilar-Aguilar 2008); Manantial El Toboso: *Characodon audax* (Martínez-Aquino *et al.* 2007); Manantial Los Berros: *C. lateralis* (Martínez-Aquino *et al.* 2014). **Guanajuato**. Río Los Galvanes: *Xenotoca variata* (Mendoza-Palmero 2007); Río La Laja (La Cieneguita): *Poeciliopsis infans*, *X. variata* (Salgado-Maldonado 2006); Río La Laja (Rincón de los Remedios): *Goodea atripinnis*, *X. variata* (Salgado-Maldonado 2006); Río La Laja (Soria La Huerta): *G. atripinnis* (Salgado-Maldonado 2006). **Jalisco**. Arroyo El Durazno: *Xenotaenia resolanae* (Mendoza-Palmero 2007); Balneario El Rincón (Teuchitlán): *Ameca splendens* (Martínez-Aquino *et al.* 2014); Lago de Chapala: *Chapalichthys encaustus* (Martínez-Aquino *et al.* 2014); Manantial Ramón Simón: *Xenotoca melanosoma* (Mendoza-Palmero 2007); Manantial La Noria, Manantial en Presa Cuisillo: *X. melanosoma* (Martínez-Aquino *et al.* 2014); Río Puente La Rosa: *Ilyodon furcoides* (Martínez-Aquino *et al.* 2014); Presa Cuzalapa: *X. resolanae* (Martínez-Aquino *et al.* 2014).

**Michoacán.** Manantial Chapultepec: *Allotoca dugesii*, *Zoogoneticus quitzeoensis* (Mendoza-Palmero 2007), *Allotoca diazi* (Martínez-Aquino *et al.* 2014); Manantial La Mintzita: *G. atripinnis*, *X. variata*, *Z. quitzeoensis* (Salgado-Maldonado 2006), *Skiffia lermæ* (Martínez-Aquino *et al.* 2014); Río Duero: *Skiffia multipunctata* (Martínez-Aquino *et al.* 2014).

**Puebla.** Río Ahuehuello: *Ilyodon whitei* (Martínez-Aquino *et al.* 2014).

SPECIMENS IN COLLECTIONS. — CNHE (6008, 9982-4).

#### REMARK

According to Martínez-Aquino *et al.* (2014), specimens recorded as *Salsuginus* sp. in Salgado-Maldonado (2006) and Martínez-Aquino *et al.* (2007) belong to *S. angularis*.

#### *Salsuginus neotropicalis*

Mendoza-Franco & Vidal-Martínez, 2001

*Salsuginus neotropicalis* Mendoza-Franco & Vidal-Martínez, 2001: 42.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo.** Laguna Valle Hermoso: *Belonesox belizanus* (Mendoza-Franco & Vidal-Martínez 2001). **Yucatán.** Cenote Chaamac: *B. belizanus* (Mendoza-Franco & Vidal-Martínez 2001); Ojo de agua en la Laguna Celestún: *B. belizanus* (Mendoza-Franco & Vidal-Martínez 2001).

SPECIMENS IN COLLECTIONS. — CHCM (339) <sup>(P)</sup>; CNHE (3842-4) <sup>(H, P)</sup>; USNM (90034-5) <sup>(P)</sup>.

#### NOTE

The record of this species in Campeche, referred by Kohn *et al.* (2006), is not included in the original bibliographic source (Mendoza-Franco & Vidal-Martínez 2001).

#### *Salsuginus seculus* (Mizelle & Arcadi, 1945)

*Uroleidus seculus* Mizelle & Arcadi, 1945: 293.

*Salsuginus seculus* – Murith & Beverley-Burton 1985: 703-714.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tabasco.** Laguna El Rosario, Río Puyacatengo (Teapa): *Gambusia yucatana* (Texta-Camacho 2003\*\*); Salgado-Maldonado *et al.* 2005b).

SPECIMENS IN COLLECTIONS. — None.

#### *Salsuginus* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Oasis Los Pinos, Oasis Corralitos: *Fundulus lima* (Méndez *et al.* 2010); Oasis San Ignacio, Oasis San José del Cabo: *Poecilia reticulata* (Méndez *et al.* 2010).

**Coahuila.** Poza Playitas, Manantial de Churince: *Cyprinodon atrorus* (Aguilar-Aguilar *et al.* 2014); Laguna Intermedia: *Cyprinodon* sp. (Aguilar-Aguilar *et al.* 2014).

**Jalisco.** Lago de Chapala: *Chapalichthys encaustus* (Martínez-Aquino *et al.* 2004).

**Morelos.** Lago Tonatiahua (Lagunas de Zempoala): *Girardinichthys multiradiatus* (Caspeta-Mandujano *et al.* 2009).

**Michoacán.** Manantial La Mintzita: *G. atripinnis*, *X. variata*, *Zoogoneticus quitzeoensis* (Salgado-Maldonado 2006).

**Oaxaca.** Río La Reforma, Río Pichuaca, Río Pueblo Viejo, Río San José de las Flores, Río Santa Cruz Flores Magón, Río Santa María Huatulco: *Profundulus punctatus* (Pinacho-Pinacho *et al.* 2014).

SPECIMENS IN COLLECTIONS. — CNHE (7044-5, 7126); COPA-UAEM (M-006).

#### *Sciadicleithrum bravohollisae*

Kritsky, Vidal-Martínez & Rodríguez-Canul, 1994

*Sciadicleithrum bravohollisae* Kritsky, Vidal-Martínez & Rodríguez-Canul, 1994: 27.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Estación Rancho II: *Vieja melanura* (Mendoza-Franco *et al.* 2000); Estuario Atasta: *V. melanura* (Kritsky *et al.* 1994); Laguna Silvituc: *Cincelichthys pearsei* (Vidal-Martínez 1995), *V. melanura* (Salgado-Maldonado *et al.* 1997); Laguna de Términos (Estación Santa Gertrudis): *C. pearsei*, *Parachromis managuensis* (Mendoza-Franco *et al.* 2000); **Laguna El Vapor:** *C. pearsei*, *Petenia splendida*, *V. melanura* (Kritsky *et al.* 1994); Río Palizada: *C. pearsei*, *V. melanura* (Mendoza-Franco *et al.* 2000). **Chiapas.** Río Lacanjá: *C. pearsei*, *Rheoheros lentiginosus*, *Trichromis salvini* (Mendoza-Franco *et al.* 2000); Presa La Angostura, Río Lagartero: *Chiapaheros grammodes*, *Vieja breidohri*, *Vieja hartwegi* (Paredes-Trujillo 2010).

**Quintana Roo.** Cenote Azul (Bacalar), Laguna Raudales: *V. melanura* (Mendoza-Franco *et al.* 2000).

**San Luis Potosí.** Arroyo Tamasopo: *Nosferatus labridens* (Aguilar-Aguilar *et al.* 2004).

**Tabasco.** Lago Yumká, Laguna de Las Ilusiones, Río Puyacatengo: *T. salvini* (Mendoza-Franco *et al.* 2000); Laguna El Espino: *Cichlasoma geddesi*, *T. salvini* (Mendoza-Franco *et al.* 2000); Laguna El Rosario: *Thorichthys helleri* (López-Jiménez 2001); Laguna Paraíso: *Amphilophus citrinellus* (Vidal-Martínez *et al.* 2001); Pantanos de Centla, Río San Pedro: *P. splendida* (Salgado-Maldonado *et al.* 2005b); Río Paraíso: *Cichlasoma* sp. (Mendoza-Franco *et al.* 2000). **Veracruz.** Arroyo Balzapote (Los Tuxtlas), Laguna Escondida, Río La Palma, Río Máquinas: *Vieja fenestrata* (Salgado-Maldonado *et al.* 2005a); Lago de Catemaco: *Oreochromis aureus* (Jiménez-García *et al.* 2001), *V. fenestrata* (Jiménez-García *et al.* 2001; Salgado-Maldonado *et al.* 2005a; Mendoza-Palmero *et al.* 2017); Tlacotalpan: *Mayaheros urophthalmus*, *P. splendida*, *Rocio octofasciata* (Salgado-Maldonado *et al.* 2005a).

**Yucatán.** Cenote Dzaptún: *T. salvini* (Mendoza-Franco *et al.* 2000).

SPECIMENS IN COLLECTIONS. — CHCM (214-15); CNHE (1331, 3132-3, 6057-8, 6064-6, 6169, 6171, 6173-4, 7110, 7114); HWML (36289) <sup>(P)</sup>; USNM (082794) <sup>(H, P)</sup>.

#### NOTE

The following records of *S. bravohollisae* listed by Kohn *et al.* (2006) are not included in the work of Mendoza-Franco *et al.* (2000): *Cichlasoma geddesi* and *Cichlasoma* sp., from Campeche, Chiapas, Quintana Roo, and Yucatán; *T. salvini* from Campeche and Quintana Roo; *Rheoheros lentiginosus* from Campeche, Tabasco, Quintana Roo, and Yucatán; *P. managuensis* from Tabasco, Chiapas, Quintana Roo, and Yucatán;

*V. melanura* from Chiapas, Tabasco, and Yucatán; and finally, *C. pearsei* has been not recorded as host of *S. bravohollisiae* in Quintana Roo, Tabasco, and Yucatán (see Mendoza-Franco *et al.* 2000).

### *Sciadicicleithrum meekii*

Mendoza-Franco, Scholz & Vidal-Martínez, 1997

*Sciadicicleithrum meekii* Mendoza-Franco, Scholz & Vidal-Martínez, 1997: 205.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Estación El Viento: *Parachromis managuensis* (Mendoza-Franco *et al.* 2000).

**Chiapas.** Ejido Reforma Agraria (Marqués de Comillas): *Thorichthys meeki* (Mendoza-Palmero *et al.* 2017); Lago Paraíso (El Raizal): *T. meeki* (Salgado-Maldonado *et al.* 2011a), *Cichlasoma* sp. (Salgado-Maldonado *et al.* 2011b); Río Lacanjá: *Thorichthys callolepis* (Mendoza-Franco *et al.* 2000).

**Quintana Roo.** Cenote Cabañas: *Vieja melanura* (Mendoza-Franco 1998); Cenote Cabañas, Cenote Los Cuates: *T. meeki* (Mendoza-Franco *et al.* 1999); Mahahual: *T. meeki* (Mendoza-Franco *et al.* 2000); Río Hondo: *P. managuensis* (Mendoza-Franco *et al.* 2000); Río Hondo (Ramonal): *T. meeki* (Mendoza-Franco 1998).

**Tabasco.** Lago Yumká, Laguna El Espino, Laguna de las Ilusiones: *Thorichthys helleri* (Mendoza-Franco *et al.* 2000); Laguna El Rosario: *T. helleri* (Salgado-Maldonado *et al.* 2005b); Laguna Santa Anita: *P. managuensis* (Mendoza-Franco *et al.* 2000).

**Yucatán.** Cenote Chaamac: *T. meeki* (Mendoza-Franco *et al.* 2000); **Cenote Dzaptún:** *Parachromis friedrichsthalii*, *Petenia splendida* (Mendoza-Franco 1998), *T. meeki* (Mendoza-Franco *et al.* 1997); Cenote Noc-choncunchey: *T. meeki* (Mendoza-Franco *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CHCM (227); CNHE (2915-16); NHMUK (1996.10.22.21-22)<sup>(P)</sup>; USNM (88947).

#### NOTE

The following records of *S. meekii* listed by Kohn *et al.* (2006) are not included in the reference of Mendoza-Franco *et al.* (2000): *Parachromis managuensis* from Yucatán and Chiapas; *T. callolepis* from Campeche, Quintana Roo, Tabasco and Yucatán; *T. helleri* from Campeche, Chiapas, Quintana Roo, and Yucatán, and *T. meeki* from Campeche.

### *Sciadicicleithrum mexicanum*

Kritsky, Vidal-Martínez & Rodríguez-Canul, 1994

*Sciadicicleithrum mexicanum* Kritsky, Vidal-Martínez & Rodríguez-Canul, 1994: 26.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Estuario Atasta, Estuario Champotón, Laguna Silvituc: *Mayaheros urophthalmus* (Kritsky *et al.* 1994); Laguna Silvituc, Laguna Palizada: *Petenia splendida* (Mendoza-Franco *et al.* 2000); Laguna El Vapor: *M. urophthalmus* (Salgado-Maldonado *et al.* 1997); Laguna La Pera: *M. urophthalmus* (Mendoza-Franco *et al.* 2000).

**Chiapas.** Ejido Reforma Agraria (Marqués de Comillas): *Rocio octofasciata* (Mendoza-Palmero *et al.* 2017); Río Cedros: *R. octofasciata* (Mendoza-Franco *et al.* 2000); Río La Fortuna: *Cichlasoma*

*trimaculatum* (Salgado-Maldonado *et al.* 2011a); Río Vado Ancho: *Astatheros macracanthus* (Salgado-Maldonado *et al.* 2011a).

**Guerrero.** Río Papagayo: *C. trimaculatum* (present study).

**Oaxaca.** Matías Romero, Presa de Temascal, San Juan Bautista (Tuxtepec): *P. splendida* (Morales-Sosa 2008).

**Quintana Roo.** Cenote Azul (Bacalar), Mahahual, Rancho Don Milo: *M. urophthalmus* (Mendoza-Franco *et al.* 2000); Cenote Azul (Puerto Aventuras): *Parachromis friedrichsthalii* (Mendoza-Franco *et al.* 1999); Cenote Cabañas: *Vieja melanura* (Mendoza-Franco *et al.* 1999); Laguna Valle Hermoso: *P. splendida* (Mendoza-Franco *et al.* 2000).

**Tabasco.** Laguna El Yucateco: *M. urophthalmus* (Mendoza-Franco *et al.* 2000; Vidal-Martínez & Poulin 2003); Laguna Santa Anita: *P. splendida* (Mendoza-Franco *et al.* 2000)\*\*; Pantanos de Centla: *M. urophthalmus* (López-Jiménez 2001).

**Veracruz.** Laguna de Alvarado: *M. urophthalmus* (Trujillo-Álvarez 1995); Río La Antigua (Apazapán): *Vieja fenestrata* (Salgado-Maldonado *et al.* 2016).

**Yucatán.** Aguada Santa Elena: *M. urophthalmus* (Salgado-Maldonado *et al.* 1997); Cantera inundada Mitza: *M. urophthalmus* (Mendoza-Franco *et al.* 1995; Jiménez-García *et al.* 2002; Vidal-Martínez & Poulin 2003); Cenote Chaamac: *Thorichthys aureus* (Mendoza-Franco *et al.* 2000), *R. octofasciata* (Mendoza-Franco *et al.* 1999); Cenote Dzaptún: *P. friedrichsthalii* (Mendoza-Franco *et al.* 1999), *P. splendida* (Mendoza-Franco *et al.* 2000); Cenote Dzonot Cervera: *M. urophthalmus* (Mendoza-Franco *et al.* 1999; Mendoza-Franco *et al.* 2000), *P. friedrichsthalii*, *T. aureus* (Mendoza-Franco *et al.* 2000), *R. octofasciata* (Mendoza-Franco *et al.* 1999); Cenote Petentuche: *M. urophthalmus*, *T. aureus* (Mendoza-Franco *et al.* 2000); Ojo de agua en la Laguna Celestún: *T. aureus* (Mendoza-Franco *et al.* 2000); **Progreso:** *M. urophthalmus* (Kritsky *et al.* 1994); Ría Lagartos: *M. urophthalmus* (Kritsky *et al.* 1994; Vidal-Martínez & Poulin 2003).

SPECIMENS IN COLLECTIONS. — CHCM (233); CNHE (1330, 3134-5, 5484, 5620-2); COPA-UAEM (M-102); HWML (36295-99)<sup>(P)</sup>; USNM (82796-7, 87302)<sup>(H, P)</sup>.

#### NOTE

The following records of *S. mexicanum* listed by Kohn *et al.* (2006) are not included in the references cited by this authors (Mendoza-Franco *et al.* 1999; Mendoza-Franco *et al.* 2000): *R. octofasciata* from Quintana Roo; *M. urophthalmus*, *P. friedrichsthalii*, and *P. splendida* from Chiapas; *T. aureus* from Campeche, Chiapas and Quintana Roo, and *V. melanura* from Yucatan.

### *Sciadicicleithrum* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Chiapas.** Río Lacantún (El Remolino): *Cincelichthys pearsei* (Salgado-Maldonado *et al.* 2011a); Río Lacantún (La Reversa): *Petenia splendida* (Salgado-Maldonado *et al.* 2011a).

**Hidalgo.** Río Atlapexco, Río Talol: *Nosferatus labridens* (Salgado-Maldonado *et al.* 2004b).

**Nayarit.** Río Santiago (Aguamilpa): *Mayaheros beani* (Salgado-Maldonado *et al.* 2001b).

**Tabasco.** Estanque Tucta: *Mayaheros urophthalmus*, *Vieja melanura* (Salgado-Maldonado *et al.* 1997); Laguna Emiliano Zapata: *C. pearsei* (Pineda-López *et al.* 1985a; Salgado-Maldonado *et al.* 1997); Laguna Santa Anita: *Cichlasoma geddesi*, *C. pearsei*, *V. melanura* (Pineda-López *et al.* 1985a); Río Jonuta: *C. pearsei* (Pineda-López *et al.* 1985a; Salgado-Maldonado *et al.* 1997).

SPECIMENS IN COLLECTIONS. — None.



## REMARK

Specimens of Pineda-López *et al.* (1985a) were recorded as Dactylogyridae, and re-identified as *Sciadicleithrum* sp. by Salgado-Maldonado *et al.* (1997).

*Sciadicleithrum splendidae*

Kritsky, Vidal-Martínez & Rodríguez-Canul, 1994

*Sciadicleithrum splendidae* Kritsky, Vidal-Martínez & Rodríguez-Canul, 1994: 29.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Laguna Silvituc: *Petenia splendida*, *Vieja melanura* (Salgado-Maldonado *et al.* 1997); Laguna de Términos (Estación Santa Gertrudis): *Parachromis managuensis* (Mendoza-Franco *et al.* 2000); **Laguna El Vapor**: *P. splendida* (Kritsky *et al.* 1994); *Parachromis friedrichsthalii* (Mendoza-Palmero *et al.* 2017).

**Chiapas**. Río Cedros: *P. friedrichsthalii* (Mendoza-Franco *et al.* 2000).

**Quintana Roo**. Mahahual: *P. friedrichsthalii* (Mendoza-Franco *et al.* 2000).

**Tabasco**. Laguna El Rosario: *Cichlasoma* sp. (Salgado-Maldonado *et al.* 2005b); Pantanos de Centla: *P. friedrichsthalii* (Salgado-Maldonado *et al.* 2005b), *P. managuensis* (López-Jiménez 2001).

**Yucatán**. Cenote Dzaptún: *P. friedrichsthalii* (Mendoza-Franco *et al.* 2000).

SPECIMENS IN COLLECTIONS. — CNHE (1332, 3720-1); HWML (36293)<sup>(P)</sup>; NHMUK (1999.7.13.26); USNM (082793)<sup>(H)</sup>.

## NOTE

The following records of *S. splendidae* listed by Kohn *et al.* (2006) are not included in the references cited by these authors: *P. friedrichsthalii* from Campeche (Mendoza-Franco *et al.* 2000; Salgado-Maldonado *et al.* 2005b); *P. managuense* from Chiapas, Yucatán, Quintana Roo (Mendoza-Franco *et al.* 2000; López-Jiménez 2001).

*Scutogyrus longicornis* (Paperna & Thurston, 1969)

*Cichlidogyrus longicornis* Paperna & Thurston, 1969: 15-33.

*Scutogyrus longicornis* – Pariselle & Euzet 1995: 161.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tabasco**. Centro Acuícola del Municipio de Centro: *Oreochromis niloticus* (López-Jiménez 2001); Centro Acuícola Municipal (Río Carrizal): *O. niloticus* (Texta-Camacho 2003)\*\*.

**Veracruz**. Centro Acuícola en Medellín: *Oreochromis* sp. (Montoya-Mendoza *et al.* 2016); Lago de Catemaco: *Oreochromis aureus*, *Vieja fenestrata* (Jiménez-García *et al.* 2001).

**Yucatán**. Cinvestav-Mérida: *O. niloticus* (Jiménez-García *et al.* 2001). Twenty-eight fish farms along Yucatán state: *O. niloticus* (Paredes-Trujillo *et al.* 2016).

SPECIMENS IN COLLECTIONS. — None.

## REMARK

Except records from Tabasco, all other records were made as *C. longicornis*, but this species was transferred to the genus *Scutogyrus* since 1995 (see Pariselle & Euzet 1995).

## NOTE

The records from Veracruz and Yucatán appear in the checklist of Kohn *et al.* (2006) as *Cichlidogyrus longicornis*, and those from Tabasco as *S. longicornis*.

*Scutogyrus* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Centro Acuícola en Nautla: *Oreochromis mossambicus*, *Oreochromis niloticus*, “Pargo UNAM” (Aguirre-Fey *et al.* 2015).

SPECIMENS IN COLLECTIONS. — None.

*Synclathrium fusiformis* (Mueller, 1934)\*

*Cleidodiscus fusiformis* Mueller, 1934: 365.

*Actinocleidus fusiformis* – Mueller 1937: 211.

*Synclathrium fusiformis* – Price 1967: 175.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nuevo León**. Presa El Cuchillo (Solidaridad): *Micropterus salmoides* (Galaviz-Silva *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (9822).

*Tetracleidus banghami* Mueller, 1936<sup>†</sup>

*Tetracleidus banghami* Mueller, 1936a: 70. — Murith & Beverley-Burton 1984: 993.

*Cleidodiscus banghami* – Mizelle 1940: 171.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nuevo León**. Laguna de Salinillas: *Oreochromis aureus* (Escobar-González 1997).

SPECIMENS IN COLLECTIONS. — None.

*Tetrancistrum* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tabasco**. Laguna El Rosario: *Eugerres plumieri* (López-Jiménez 2001); Río San Pedro: *E. plumieri* (Texta-Camacho 2003)\*\*.

SPECIMENS IN COLLECTIONS. — None.

## REMARK

Originally recorded as *Pseudohaliotrematoides* by López-Jiménez (2001) a genus considered synonym of *Tetrancistrum* by Kritsky *et al.* (2007).

*Urocleidoides reticulatus* Mizelle & Price, 1964

*Urocleidoides reticulatus* Mizelle & Price, 1964: 583.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tabasco**. Laguna El Rosario: *Belonesox belizanus* (Texta-Camacho 2003)\*\*; Pantanos de Centla: *B. belizanus* (López-Jiménez 2001), *Poecilia petenensis* (Salgado-Maldonado *et al.* 2005b); Río Puyacatengo: *Poecilia mexicana* (Salgado-Maldonado *et al.* 2005b).

SPECIMENS IN COLLECTIONS. — None.

*Urocleidoides simonae* Mendoza-Franco, Caspeta-Mandujano, Salgado-Maldonado & Matamoros, 2015

*Urocleidoides simonae* Mendoza-Franco, Caspeta-Mandujano, Salgado-Maldonado & Matamoros, 2015b: 2.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Chiapas**. Arroyo Ojo de Agua (El Canelar-La Frailesca), Río en Rancho San Antonio (Chicoasén), **Río Nandalumí (Chiapa de Corso)**: *Profundulus punctatus* (Mendoza-Franco *et al.* 2015b); Cañada Tres Picos (Copainalá), Río en Rancho San Antonio (Chicoasén), Río Nandalumí (Chiapa de Corso): *Profundulus labialis* (Mendoza-Franco *et al.* 2015b). Guerrero: Río Cahaoapan, Río Tamarindo, Río La Laca: *P. punctatus* (Mendoza-Franco *et al.* 2015b). **Oaxaca**. Río del Aguacate (Juquila): *P. punctatus* (Mendoza-Franco *et al.* 2015b); Cañada Los Sabinos: *Profundulus oaxacae* (Mendoza-Franco *et al.* 2015b); Río Chicahuatla, Río Chico (San Lorenzo Albarradas): *Profundulus* sp. (Mendoza-Franco *et al.* 2015b).

SPECIMENS IN COLLECTIONS. — CNHE (9854-9856) (H, P).

*Urocleidoides* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Coahuila**. Arroyo Ejido Las Flores, Canal Ejido Las Flores, Río Cañón, Río El Moral, Río Salado: *Astyanax mexicanus* (Loya-Cancino 2012).

**Guanajuato**. Río La Laja (Rincón de los Remedios), Río La Laja (Soria La Huerta): *Xiphophorus variatus* (Salgado-Maldonado 2006). **Oaxaca**. Arroyo bajo el Puente Río San Marcos: *Astyanax fasciatus* (Mora-Bonilla 2010); Arroyo San Juan Bautista, Río Grande (Guelatao), Río Grande (San José del Chilar), Santa María Tecomavaca: *Astyanax aeneus* (Salgado-Maldonado *et al.* 2005a); Arroyo San Juan Bautista, Río Grande (Guelatao), Río Grande (San José del Chilar), Santa María Tecomavaca: *A. fasciatus* (Mora-Bonilla 2010); Río San Antonio Nanahuatipan: *A. aeneus* (Mora-Bonilla 2010), Río La Reforma, Río Pichuaca, Río Pueblo Viejo, Río San José de las Flores, Río Santa Cruz Flores Magón, Río Santa María Huatulco: *Profundulus punctatus* (Pinacho-Pinacho *et al.* 2014).

**Tabasco**. Laguna El Rosario: *Gobiomorus dormitor* (López-Jiménez 2001). **Veracruz**. Río La Antigua (Agua Bendita): *Heterandria bimaculata* (Salgado-Maldonado 2006); Río La Palma: *A. fasciatus* (Mora-Bonilla 2010).

SPECIMENS IN COLLECTIONS. — CNHE.

REMARK

Specimens of Pinacho-Pinacho *et al.* (2014) were identified as *Salsuginus* sp., but according to Pinacho-Pinacho *et al.* (2015), they belong to *Urocleidoides* sp.

*Urocleidoides strombicirrus* (Price & Bussing, 1967)

*Cleidodiscus strombicirrus* Price & Bussing, 1967: 81.

*Urocleidoides strombicirrus* – Kritsky & Thatcher 1974: 55.

HOSTS. — Actinopterygii; Fins, gills.

GEOGRAPHIC DISTRIBUTION. — **Chiapas**. Río Bonanza, Río La Fortuna, Río Lacantún (Chajul), Río Vado Ancho: *Astyanax aeneus* (Salgado-Maldonado *et al.* 2011a).

**Durango**. Puente Lajas 2: *Astyanax mexicanus* (Pérez-Ponce de León *et al.* 2010).

**Hidalgo**. Río Candelaria: *A. mexicanus* (Salgado-Maldonado *et al.* 2004b).

**Morelos**. Río Amacuzac, (Las Planchas): *Astyanax fasciatus* (Mora-Bonilla 2010); Río Cuautla (La Cuera-Tlayecac): *A. aeneus* (Múgica-Ruiz & Caspeta-Mandujano 2009; Caspeta-Mandujano *et al.* 2009).

**Oaxaca**. Arroyo bajo el Puente Río San Marcos, Cuyotepeji, Río Petlalcingo: *A. fasciatus* (Mora-Bonilla 2010); Arroyo San Juan Bautista, Río Grande (Guelatao), Río Grande (San José del Chilar), Santa María Tecomavaca: *A. aeneus* (Mora-Bonilla 2010).

**Querétaro**. Río El Carrizal, Río Estórax, Río Oásis: *A. mexicanus* (Salgado-Maldonado *et al.* 2004b).

**San Luis Potosí**. Arroyo Canoas, Primera Cascada Canoas, Río Santa María (Fracción Sánchez): *A. mexicanus* (Salgado-Maldonado *et al.* 2004b).

**Tabasco**. Laguna El Rosario: *A. fasciatus* (Texta-Camacho 2003); Pantanos de Centla: *A. fasciatus* (López-Jiménez 2001).

**Veracruz**. Río La Antigua (Apazapan): *A. mexicanus* (Salgado-Maldonado *et al.* 2016).

SPECIMENS IN COLLECTIONS. — CNHE (6510); COPA-UAEM (M-008, M-103).

*Urocleidoides vaginoclaustroides* Mendoza-Franco, Caspeta-Mandujano, Salgado-Maldonado & Matamoros, 2015\*

*Urocleidoides vaginoclaustroides* Mendoza-Franco, Caspeta-Mandujano, Salgado-Maldonado & Matamoros, 2015b: 4.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Chiapas**. Arroyo José, **Río Danta**: *Heterandria bimaculata* (Mendoza-Franco *et al.* 2015b).

SPECIMENS IN COLLECTIONS. — CNHE (9857-9) (H, P).

*Urocleidoides vaginoclaustrum*

Jogunoori, Kritsky & Venkatanarasaiah, 2004\*

*Urocleidoides vaginoclaustrum* Jogunoori, Kritsky & Venkatanarasaiah, 2004: 121.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Río Palizada: *Pterygoplichthys pardalis* (Rodríguez-Santiago *et al.* 2016).

**Chiapas**. Río Danta: *Xiphophorus hellerii* (Mendoza-Franco *et al.* 2015b); Río en Rancho San Antonio (Chicoasén): *Profundulus labialis* (Mendoza-Franco *et al.* 2015b).

**Durango**. Arroyo Los Berros: *X. hellerii* (Mendoza-Palmero & Aguilar-Aguilar 2008).

**Hidalgo**. Chicayotla, Malila (Río Conzintla): *Xiphophorus malinche* (Bautista-Hernández *et al.* 2014b); Huiznopala, San Pedro: *Xiphophorus birchmanni* (Bautista-Hernández *et al.* 2014a).

**Veracruz.** Rancho Tizapán (Arroyo Seco), Río Huitzilapan (Río Tilapa), Río La Antigua (Agua Bendita), San Miguel (Avestruces): *Heterandria bimaculata* (Salgado-Maldonado *et al.* 2014); Río La Antigua (Apazapan): *H. bimaculata*, *X. hellerii* (Salgado-Maldonado *et al.* 2016).

SPECIMENS IN COLLECTIONS. — CNHE (4376, 6059, 9270-3, 9871); COPA-UAEM (M-104).

*Urocleidus principalis* (Mizelle, 1936)\*

*Onchocleidus principalis* Mizelle, 1936: 798.

*Urocleidus principalis* – Mizelle & Hughes 1938: 349.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nuevo León.** Presa El Cuchillo (Solidaridad): *Micropterus salmoides* (Galavíz-Silva *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (9825).

*Urocleidus* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Morelos.** Centro Acuícola El Rodeo, Centro Acuícola Zacatepec: *Oreochromis* sp. (Pérez-Ponce de León *et al.* 1996)\*\*.

**Veracruz.** Tlacotalpan: *Dormitator maculatus* (Salgado-Maldonado *et al.* 2005a).

SPECIMENS IN COLLECTIONS. — None.

Family DIPLECTANIDAE Monticelli, 1903

*Acleotrema diplobulbus* (Yamaguti, 1968)\*

*Heteroplectanum diplobulbus* Yamaguti, 1968: 116.

*Acleotrema diplobulbus* – Domingues & Boeger 2007: 38.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tabasco.** Undetermined: *Kyphosus sectatrix* (Domingues & Boeger 2007).

SPECIMENS IN COLLECTIONS. — QM (13649-51).

REMARK

Species identification is considered as tentative because the specimens are not properly fixed for a detailed study of their morphology (Domingues & Boeger 2007). Geographic distribution of this species in Mexico follows Santos *et al.* (2008).

*Acleotrema girellae* Johnston & Tiegs, 1922

*Acleotrema girellae* Johnston & Tiegs, 1922: 110.

*Heteroplectanum kyphosi* Yamaguti, 1968: 124. — León-Règagnon *et al.* 1997. — Domingues & Boeger 2007: 38.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Kyphosus elegans* (León-Règagnon *et al.* 1997).

SPECIMENS IN COLLECTIONS. — CNHE (2731).

*Acleotrema nenue* (Yamaguti, 1968)

*Diplectanum nenue* Yamaguti, 1968: 118.

*Heteroplectanum nenue* – Rakotofiringa *et al.* 1987: 145-157.

*Acleotrema nenue* – Domingues & Boeger 2007: 38.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Kyphosus elegans* (León-Règagnon *et al.* 1997).

SPECIMENS IN COLLECTIONS. — CNHE (2730).

REMARK

According to Domingues & Boeger (2007), the genus *Heteroplectanum* is junior synonym of *Acleotrema*.

*Acleotrema oliveri* (León-Règagnon, Pérez-Ponce de León & García-Prieto, 1997)  
(Fig. 3C)

*Heteroplectanum oliveri* León-Règagnon, Pérez-Ponce de León & García-Prieto, 1997: 10.

*Acleotrema oliveri* – Domingues & Boeger 2007: 37.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Kyphosus elegans* (León-Règagnon *et al.* 1997).

**Undetermined.** Tortugas: *Kyphosus sectatrix* (Domingues & Boeger 2007).

SPECIMENS IN COLLECTIONS. — CNHE (2728-9)<sup>(H, P)</sup>; QM (13650-52); USNM (84878)<sup>(P)</sup>.

REMARK

The host identification in the record of Tortugas is doubtful because *A. oliveri* is only found in the Pacific Ocean, and *K. sectatrix* is only distributed in the Atlantic Ocean.

DIPLECTANIDAE gen. sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Laguna La Mancha: *Ariopsis felis* (Aguilar-Sánchez 1998)\*\*; *Diapterus auratus*, *Diapterus rhombeus* (Téllez-Guzmán 1997)\*\*; Río La Palma: *Agonostomus monticola* (Salgado-Maldonado *et al.* 2005a).

**Yucatán.** Laguna de Celestún: *Cynoscion nebulosus* (Sosa-Medina *et al.* 2015).

SPECIMENS IN COLLECTIONS. — None.



*Diplectanocotyla megalopis*  
Rakotofringa & Oliver, 1987

*Diplectanocotyla megalopis* Rakotofringa & Oliver, 1987: 333.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo**. Laguna Yalahau: *Megalops atlanticus* (Mendoza-Franco *et al.* 2004).

SPECIMENS IN COLLECTIONS. — CHCM (461); CNHE (4675); IPCAS (M-384); USNM (92905).

*Diplectanocotyla* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tabasco**. Río San Pedro: *Megalops atlanticus* (López-Jiménez 2001).

SPECIMENS IN COLLECTIONS. — None.

*Diplectanum bilobatus* Hargis, 1955<sup>‡</sup>

*Diplectanum bilobatus* Hargis, 1955: 38.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tamaulipas**. Laguna Madre (Punta Piedra): *Cynoscion nebulosus* (Ramos-Guerra 1998; Iruegas-Buentello 1999).

**Yucatán**. Celestún: *C. nebulosus* (Mendoza-Franco *et al.* 2013b).

SPECIMENS IN COLLECTIONS. — CNHE (8461).

REMARK

This species was considered as *incertae sedis* by Domingues (2004).

*Diplectanum* sp.<sup>‡</sup>

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Colima**. Isla Socorro: *Epinephelus labriformis* (unpublished record, HWML).

**Tabasco**. El Recreo (Tenosique): *Eugerres mexicanus* (Hernández-Gómez *et al.* 2011).

**Veracruz**. Laguna La Mancha: *Cathorops aguadulce* (Aguilar-Sánchez 1998), *Diapterus auratus*, *Diapterus rhombeus* (Téllez-Guzmán 1997).

SPECIMENS IN COLLECTIONS. — HWML (31171).

*Neodiplectanum magnodiscatum*  
(Fuentes-Zambrano, 1997)\*

*Diplectanum magnodiscatum* Fuentes-Zambrano, 1997: 227.

*Neodiplectanum magnodiscatum* – Domingues *et al.* 2011: 4.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo**. Bahía de Chetumal: *Eugerres plumieri* (Aguirre-Macedo *et al.* 2007; González-Solís & Sánchez-Ceballos 2012); Laguna Guerrero, Laguna Salada: *E. plumieri* (González-Solís & Sánchez-Ceballos 2012).

SPECIMENS IN COLLECTIONS. — CHCM (408); CNHE (5713); ECOPA (084).

REMARK

The material of Aguirre-Macedo *et al.* (2007) was recorded as *Neodiplectanum wenningeri* Mizelle & Blatz, 1941, and re-identified as *N. magnodiscatum* by Domingues *et al.* (2011).

*Neodiplectanum mexicanum*  
(Mendoza-Franco, Roche & Torchin, 2008)\*

*Diplectanum mexicanum* Mendoza-Franco, Roche & Torchin, 2008a: 174.

*Neodiplectanum mexicanum* – Domingues *et al.* 2011: 8.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Campeche: *Diapterus rhombeus* (Mendoza-Franco *et al.* 2008a).

SPECIMENS IN COLLECTIONS. — CNHE (6034-5) <sup>(H, P)</sup>; IPCAS (M-467) <sup>(P)</sup>; USNM (100848) <sup>(P)</sup>.

*Neodiplectanum* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tabasco**. Río San Pedro: *Eugerres mexicanus* (López-Jiménez 2001).

SPECIMENS IN COLLECTIONS. — None.

NOTE

Referred as *Diplectanum* sp. in Kohn *et al.* (2006).

*Pseudorhabdosynochus amplidiscatus*  
(Bravo-Hollis, 1954)

*Diplectanum amplidiscatum* Bravo-Hollis, 1954: 37.

*Diplectanum* sp. Bravo-Hollis, 1953: 141.

*Cycloplectanum americanum* Oliver, 1968: 123.

*Cycloplectanum amplidiscatum* – Beverley-Burton & Suriano 1981: 1278.

*Pseudorhabdosynochus amplidiscatus* – Kritsky & Beverley-Burton 1986: 18.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California**. Ensenada, Bahía de Santa Rosalita: *Paralabrax nebulifer* (Gómez del Prado 2012).

**Baja California Sur**. Bahía de La Paz: *Mycteroperca jordani*, *Mycteroperca rosacea*, *Mycteroperca xenarcha* (Flores-Herrera 1995)\*\*; *Epinephelus labriformis* (Inohuye-Rivera 1995)\*\*; Canal Cerralvo:

*E. labriformis* (Inohuye-Rivera 1995)\*\*; El Sargento: *M. rosacea* (Flores-Herrera 1995)\*\*; San José del Cabo: *Hyporthodus acanthistius*, *Epinephelus analogus*, *E. labriformis* (Inohuye-Rivera 1995)\*\*; *M. jordani*, *M. rosacea*, *M. xenarcha* (Flores-Herrera 1995)\*\*; Todos Santos: *M. jordani*, *M. rosacea*, *M. xenarcha* (Flores-Herrera 1995)\*\*; Colima. Islas Revillagigedo: *E. labriformis* (Lamothe-Argumedo *et al.* 1997b)\*\*.

Guerrero. Cantiles de Mozimba (Acapulco): *E. analogus*, *E. labriformis* (Mendoza-Franco *et al.* 2011).

Jalisco. Puerto Vallarta: *Paralabrax maculatofasciatus* (Bravo-Hollis 1954).

SPECIMENS IN COLLECTIONS. — CNHE (31-32, 321) (H, P); CP-MHN-UABCS (35, 55); IPCAS (M-491); MHNG (64650, 64661, 64664); USNM (102197-8).

#### REMARK

This species was synonymized with *Cycloplectanum americanum* by Oliver (1968). However, Beverley-Burton & Suriano (1981) revalidated the Bravo-Hollis' species and transferred it to *Cycloplectanum*. Oliver (1986) agreed with this relocation, but later, Kritsky & Beverley-Burton (1986) included this species into the genus *Pseudorhabdosynochus*, a proposal accepted by Yang *et al.* (2005) and Domingues & Boeger (2008). According to Kritsky *et al.* (2015), records of *P. amplidiscatum* from Guerrero require confirmation.

#### NOTE

The presence of this species in *E. labriformis* in Jalisco and Colima and in *P. maculatofasciatus* from Colima referred by Kohn *et al.* (2006) is not including in the original references (Bravo-Hollis 1953, 1954).

#### *Pseudorhabdosynochus anulus* Mendoza-Franco, Vidal-Martínez & Rojas-Herrera, 2011\*

*Pseudorhabdosynochus anulus* Mendoza-Franco, Vidal-Martínez & Rojas-Herrera, 2011: 30.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Guerrero. Cantiles de Mozimba (Acapulco): *Epinephelus labriformis* (Mendoza-Franco *et al.* 2011).

SPECIMENS IN COLLECTIONS. — CNHE (7036).

#### *Pseudorhabdosynochus caballeroi* (Oliver, 1984)

*Cycloplectanum caballeroi* Oliver, 1984: 37.

*Diplectanum americanum* Caballero & Bravo-Hollis, 1961a: 202.

*Pseudorhabdosynochus caballeroi* – Kritsky & Beverley Burton 1986: 18.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Oaxaca. Salina Cruz: *Stereolepis gigas* (Caballero & Bravo-Hollis 1961a).

SPECIMENS IN COLLECTIONS. — CNHE (84) (H, P).

#### REMARK

Based on the material of Caballero & Bravo-Hollis (1961a), Oliver (1984) described the new species *Cycloplectanum caballeroi*, which was transferred to *Pseudorhabdosynochus* Yamaguti, 1958 by Kritsky & Beverley-Burton (1986).

#### *Pseudorhabdosynochus capurroi* Vidal-Martínez & Mendoza-Franco, 1998

*Pseudorhabdosynochus capurroi* Vidal-Martínez & Mendoza-Franco, 1998: 221.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Yucatán. Arrecife Alacranes, Celestún: *Mycteroperca bonaci* (Espínola-Novelo *et al.* 2013), Chuburná, Estuario Celestún, Progreso: *M. bonaci* (Vidal-Martínez & Mendoza-Franco 1998).

SPECIMENS IN COLLECTIONS. — CHCM (170) (P); CNHE (3172-73) (H, P); IPCAS (M-350) (P).

#### REMARK

Yang *et al.* (2005) considered that this species will likely prove to be a synonym of *P. kritskyi*, but Domingues & Boeger (2008) included it among the valid species of the genus.

#### *Pseudorhabdosynochus fulgidus* Mendoza-Franco, Vidal-Martínez & Rojas-Herrera, 2011\*

*Pseudorhabdosynochus fulgidus* Mendoza-Franco, Vidal-Martínez & Rojas-Herrera, 2011: 26.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Guerrero. Cantiles de Mozimba (Acapulco): *Epinephelus labriformis* (Mendoza-Franco *et al.* 2011).

SPECIMENS IN COLLECTIONS. — CNHE (7030); IPCAS (M-495).

#### *Pseudorhabdosynochus guerreroensis* Mendoza-Franco, Vidal-Martínez & Rojas-Herrera, 2011\*

*Pseudorhabdosynochus guerreroensis* Mendoza-Franco, Vidal-Martínez & Rojas-Herrera, 2011: 21.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — Guerrero. Cantiles de Mozimba (Acapulco): *Alphestes immaculatus*, *Alphestes multiguttatus* (Mendoza-Franco *et al.* 2011).

SPECIMENS IN COLLECTIONS. — CNHE (7023-25) (H, P); MHNG (64660, 64655, 64658) (P); USNM (102199-201) (P).

#### *Pseudorhabdosynochus justinella* Kritsky, Bakenhaster & Adams, 2015\*

*Pseudorhabdosynochus justinella* Kritsky, Bakenhaster & Adams, 2015: 9.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Yucatán.** Progreso: *Epinephelus morio* (Vidal-Martínez *et al.* 1997; Kritsky *et al.* 2015).

REMARK

According to Kritsky *et al.* (2015) the original description of *P. yucatanensis* Vidal-Martínez, Aguirre-Macedo & Mendoza-Franco, 1997, was based on a series of 14 specimens that included members of both *P. yucatanensis* (s.s.) and *P. justinella*, so geographic distribution of *P. justinella* in Mexico could be wider.

*Pseudorhabdosynochus* sp.<sup>‡</sup>

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** El Sargento: *Paranthias colonus* (Mendoza-Cruz *et al.* 2013).

**Veracruz.** Laguna La Mancha: *Diapterus rhombeus* (Téllez-Guzmán 1997).

**Yucatán.** Arrecife Alacranes: *Mycteroperca bonaci* (Espínola-Novelo *et al.* 2013).

SPECIMENS IN COLLECTIONS. — CNHE (8206); CPMHN-UABCS (657).

REMARK

According to Espínola-Novelo *et al.* (2013), it is possible that the monogeneans identified as *Pseudorhabdosynochus* sp. in Yucatán belong to the species *P. kritskyi*.

*Pseudorhabdosynochus spirani* Mendoza-Franco, Vidal-Martínez & Rojas-Herrera, 2011\*

*Pseudorhabdosynochus spirani* Mendoza-Franco, Vidal-Martínez & Rojas-Herrera, 2011: 25.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero.** Cantiles de Mozimba (Acapulco): *Epinephelus labriformis* (Mendoza-Franco *et al.* 2011).

SPECIMENS IN COLLECTIONS. — CNHE (7038-9) (H, P).

*Pseudorhabdosynochus tabogaensis* Mendoza-Franco, Vidal-Martínez & Rojas-Herrera, 2011\*

*Pseudorhabdosynochus tabogaensis* Mendoza-Franco, Vidal-Martínez & Rojas-Herrera, 2011: 28.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero.** Cantiles de Mozimba (Acapulco): *Epinephelus labriformis* (Mendoza-Franco *et al.* 2011).

SPECIMENS IN COLLECTIONS. — IPCAS (M-493) (P).

*Pseudorhabdosynochus yucatanensis* Vidal-Martínez, Aguirre-Macedo & Mendoza-Franco, 1997

*Pseudorhabdosynochus yucatanensis* Vidal-Martínez, Aguirre-Macedo & Mendoza-Franco, 1997: 274.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Campeche: *Epinephelus morio* (Moravec *et al.* 1997; Vidal-Martínez *et al.* 1997, 1998; Vidal-Martínez & Poulin 2003).

**Quintana Roo.** Chiquilá: *E. morio* (Moravec *et al.* 1997; Vidal-Martínez *et al.* 1997, 1998; Vidal-Martínez & Poulin 2003).

**Yucatán.** Chicxulub, Chuburná, Estuario Celestún, Laguna Chelém, Progreso, Ría Lagartos, Sisal, Telchac Puerto: *E. morio* (Moravec *et al.* 1997; Vidal-Martínez *et al.* 1997; Vidal-Martínez & Poulin 2003).

SPECIMENS IN COLLECTIONS. — CHCM (96-5) (H, P); CNHE (2923) (P); IPCAS (M-346) (P); USNM (87301) (P).

REMARK

Some part of the type specimens of *P. yucatanensis* was used by Kritsky *et al.* (2015) to describe *P. justinella*, so, all records of *P. yucatanensis* need to be confirmed.

*Rhabdosynochus alterinstitus* Mendoza-Franco, Violante-González & Vidal-Martínez, 2008\*

*Rhabdosynochus alterinstitus* Mendoza-Franco, Violante-González & Vidal-Martínez, 2008b: 28.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero.** Laguna Chautengo, Laguna de Tecamate: *Centropomus nigrescens* (Violante-González *et al.* 2010); Laguna de Tres Palos: *C. nigrescens* (Mendoza-Franco *et al.* 2008b; Violante-González *et al.* 2010).

SPECIMENS IN COLLECTIONS. — CNHE (5796-97) (H, P); USNM (99632) (P).

*Rhabdosynochus lituparvus* Mendoza-Franco, Violante-González & Vidal-Martínez, 2008\*

*Rhabdosynochus lituparvus* Mendoza-Franco, Violante-González & Vidal-Martínez, 2008b: 30.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero.** Laguna de Tres Palos: *Centropomus robalito* (Mendoza-Franco *et al.* 2008b).

SPECIMENS IN COLLECTIONS. — CNHE (5798-99) (H, P); USNM (99633) (P).

*Rhabdosynochus nigrescensi* (Mendoza-Franco, Violante-González & Vidal-Martínez, 2006)\*

*Cornutobaptor nigrescensi* Mendoza-Franco, Violante-González & Vidal-Martínez, 2006: 482.

*Rhabdosynochus nigrescensi* – Domingues & Boeger 2008: 22.



HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Laguna de Coyuca: *Centropomus nigrescens* (Mendoza-Franco *et al.* 2006; Violante-González & Aguirre-Macedo 2007), *Centropomus robalito* (present study); Laguna Chautengo: *C. nigrescens* (Violante-González *et al.* 2010); **Laguna de Tres Palos**: *C. nigrescens* (Mendoza-Franco *et al.* 2006; Violante-González *et al.* 2007).

SPECIMENS IN COLLECTIONS. — CNHE (5432-3, 6671, 6675, 7134) (H, P); IPCAS (M-418); NHMUK (2006.4.6.1–3) (P); USNM (97290) (P).

***Rhabdosynochus rhabdosynochus* Mizelle & Blatz, 1941<sup>†</sup>**

*Rhabdosynochus rhabdosynochus* Mizelle & Blatz, 1941: 105.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tamaulipas**. Laguna Madre (Punta Piedra): *Archosargus probatocephalus* (Iruegas-Buentello 1999).

SPECIMENS IN COLLECTIONS. — None.

***Rhabdosynochus siliquaus* Mendoza-Franco, Violante-González & Vidal-Martínez, 2008\***

*Rhabdosynochus siliquaus* Mendoza-Franco, Violante-González & Vidal-Martínez, 2008b: 33.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Laguna de Tres Palos: *Centropomus robalito* (Mendoza-Franco *et al.* 2008b).

SPECIMENS IN COLLECTIONS. — CNHE (5802-03) (H, P); USNM (99635) (P).

***Rhabdosynochus* sp.\***

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Laguna de Tres Palos: *Centropomus robalito* (Violante-González *et al.* 2007). **Sinaloa**. Teacapán: *Centropomus viridis* (present study). **Tabasco**. Pantanos de Centla: *Centropomus parallelus*, *Centropomus undecimalis* (García-Magaña & López-Jiménez 2008).

SPECIMENS IN COLLECTIONS. — CNHE (8350-1).

REMARKS

Specimens from Guerrero could pertain to any of the three species that parasitize *C. robalito* in Tres Palos Lagoon.

***Rhabdosynochus volucris* Mendoza-Franco, Violante-González & Vidal-Martínez, 2008\***

*Rhabdosynochus volucris* Mendoza-Franco, Violante-González & Vidal-Martínez, 2008b: 30.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Laguna de Tres Palos: *Centropomus robalito* (Mendoza-Franco *et al.* 2008b).

SPECIMENS IN COLLECTIONS. — CNHE (5800-1) (H, P); USNM (99634) (P).

***Rhamnocercoides stichospinus* (Seamster & Monaco, 1956)\***

*Rhamnocercus stichospinus* Seamster & Monaco, 1956: 180.

*Rhamnocercoides stichospinus* – Domingues & Boeger 2006: 110.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Playa Las Barrancas (Alvarado): *Menticirrhus americanus*, *Menticirrhus littoralis*, *Menticirrhus saxatilis* (Montoya-Mendoza *et al.* 2008).

SPECIMENS IN COLLECTIONS. — CNHE (6184-5).

***Rhamnocercus bairdiella* Hargis, 1955\***

*Rhamnocercus bairdiella* Hargis, 1955: 42.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Playa Las Barrancas (Alvarado): *Bairdiella chrysoura* (Montoya-Mendoza *et al.* 2008).

SPECIMENS IN COLLECTIONS. — CNHE (6181, 6655).

***Rhamnocercus margaritae* Fuentes-Zambrano, 1997\***

*Rhamnocercus margaritae* Fuentes-Zambrano, 1997: 231.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Playa Las Barrancas (Alvarado): *Bairdiella chrysoura* (Montoya-Mendoza *et al.* 2008).

SPECIMENS IN COLLECTIONS. — CNHE (6188, 6489).

***Rhamnocercus rhamnocercus* Monaco, Wood & Mizelle, 1954<sup>§</sup>**

*Rhamnocercus rhamnocercus* Monaco, Wood & Mizelle, 1954: 129.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Umbrina xanti* (Pérez-Ponce de León *et al.* 1999)\*\*.

**Veracruz**. Playa Las Barrancas (Alvarado): *Umbrina coroides* (Montoya-Mendoza *et al.* 2008).

SPECIMENS IN COLLECTIONS. — CNHE (2870, 6130, 6179).

Family GYRODACTYLIDAE Van Beneden & Hesse, 1863

*Anacanthocotyle anacanthocotyle*

Kritsky & Fritts, 1970

*Anacanthocotyle anacanthocotyle* Kritsky & Fritts, 1970: 65.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Coahuila**. Manantial Maris, Río El Moral: *Astyanax mexicanus* (Loya-Cancino 2012).

**Veracruz**. Laguna Escondida: *Astyanax aeneus* (Salgado-Maldonado *et al.* 2005a), *Astyanax fasciatus* (Mora-Bonilla 2010).

**Yucatán**. Cenote Noc-choncunche: *A. fasciatus* (Mendoza-Franco *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CHCM (237); CNHE (3719).

GYRODACTYLIDAE gen. sp.\*

HOSTS. — Actinopterygii; Not determined.

GEOGRAPHIC DISTRIBUTION. — **Hidalgo**. Huiznopala, San Pedro: *Heterandria bimaculata* (Bautista-Hernández *et al.* 2014a).

SPECIMENS IN COLLECTIONS. — None.

*Gyrodactylus actzu* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015\*

*Gyrodactylus actzu* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015b: 3343.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Río La Antigua (Apazapán): *Poecilia mexicana* (García-Vásquez *et al.* 2015b).

SPECIMENS IN COLLECTIONS. — CNHE (9385-6) (H, P).

*Gyrodactylus apazapanensis* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015\*

*Gyrodactylus apazapanensis* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015b: 3343.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Río La Antigua (Apazapán): *Poecilia mexicana*, *Xiphophorus hellerii* (García-Vásquez *et al.* 2015b).

SPECIMENS IN COLLECTIONS. — CNHE (9387-9) (H, P); USNM (1267910-12) (P).

*Gyrodactylus bullatarudis* Turnbull, 1956\*

*Gyrodactylus bullatarudis* Turnbull, 1956: 583.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Hidalgo**. Río Moctezuma (Vega de Ramírez): *Poecilia mexicana* (Rubio-Godoy *et al.* 2010).

**Veracruz**. Manantial Apazapán, Rancho Tizapán (Arroyo Seco), Río

Huitzilapan (Río Tilapa), Río La Antigua (Agua Bendita): *Heterandria bimaculata* (Salgado-Maldonado *et al.* 2014).; Río La Antigua (Apazapán): *P. mexicana*, *Poeciliopsis gracilis* (Salgado-Maldonado *et al.* 2016); Río Pixquiac (Xalapa): *Xiphophorus hellerii* (Rubio-Godoy *et al.* 2010).

SPECIMENS IN COLLECTIONS. — CNHE (7132-33); COPA-UAEM (M106); NHMUK (2010.3.11.1-7).

*Gyrodactylus cichlidarum* Paperna, 1968\*

*Gyrodactylus cichlidarum* Paperna, 1968: 88.

*Gyrodactylus niloticus* Cone, Arthur & Bondad-Reantaso, 1995: 6.

HOSTS. — Actinopterygii; Fins, skin.

GEOGRAPHIC DISTRIBUTION. — **Michoacán**. Araro: *Heterandria bimaculata*, *Poecilia mexicana* (Rubio-Godoy *et al.* 2016; García-Vásquez *et al.* 2017).

**Puebla**. Río Tocolutla (Tenampulco): *Poeciliopsis gracilis* (García-Vásquez *et al.* 2017).

**Sonora**. Centro Acuicola Esperanza: *Oreochromis mossambicus* (Hernández-Martínez 1992).

**Tabasco**. Carretera Villahermosa-Teapa, Km 25: *Oreochromis niloticus* (López-Jiménez 2001); Centro Acuicola Teapa: *Oreochromis aureus*, *O. mossambicus* (Salgado-Maldonado *et al.* 2005b); Centro Acuicola del Municipio de Centro: *O. aureus* (Salgado-Maldonado *et al.* 2005b); Gania de Pucté (Municipio de Chablé): *O. niloticus* (García-Vásquez *et al.* 2007).

**Yucatán**. 26 fish farms along Yucatán state: *O. niloticus* (Paredes-Trujillo *et al.* 2016).

SPECIMENS IN COLLECTIONS. — None.

REMARK

Specimens of López-Jiménez (2001) and Salgado-Maldonado *et al.* (2005b) were identified as *Gyrodactylus niloticus*, but this species was synonymized with *G. cichlidarum* by García-Vásquez *et al.* (2007). The material from Sonora, recorded as *Gyrodactylus* sp., was transferred to *G. cichlidarum* by García-Vásquez *et al.* (2011).

*Gyrodactylus ibkahuili* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015\*

*Gyrodactylus ibkahuili* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015b: 3344.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Río La Antigua (Apazapán): *Poecilia mexicana* (García-Vásquez *et al.* 2015b).

SPECIMENS IN COLLECTIONS. — CNHE (9390-1) (H, P).

*Gyrodactylus jarocho* Rubio-Godoy, Paladini, García-Vásquez & Shinn, 2010\*

*Gyrodactylus jarocho* Rubio-Godoy, Paladini, García-Vásquez & Shinn, 2010: 6.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — Veracruz. Río Mondongo (Los Naranjos): *Xiphophorus hellerii* (Rubio-Godoy *et al.* 2010).

SPECIMENS IN COLLECTIONS. — CNHE (7130)<sup>(P)</sup>; NHMUK (2010.3.11.8-9)<sup>(H, P)</sup>.

*Gyrodactylus lamothei* Mendoza-Palmero, Sereno-Uribe & Salgado-Maldonado, 2009\*

*Gyrodactylus lamothei* Mendoza-Palmero, Sereno-Uribe & Salgado-Maldonado, 2009: 317.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — Ciudad de México. La Cantera Oriente (Reserva Ecológica del Pedregal de San Ángel): *Girardinichthys multiradiatus* (Mendoza-Palmero *et al.* 2007).

Estado de México. Laguna de Chicahuapan: *G. multiradiatus* (Mendoza-Palmero *et al.* 2009).

Michoacán. Manantial Chapultepec: *Allotoca diazi*, *Allotoca dugesii* (Martínez-Aquino *et al.* 2014).

Querétaro. Río Las Zúñigas: *Goodea atripinnis* (Martínez-Aquino *et al.* 2014).

SPECIMENS IN COLLECTIONS. — CNHE (6301, 6309-10, 7120, 7122, 9216-7, 9220-1)<sup>(H, P)</sup>; IPCAS (M-473)<sup>(P)</sup>.

#### REMARK

Specimens from Ciudad de México were published as *Gyrodactylus* sp., and deposited in the CNHE as *G. lamothei*.

*Gyrodactylus mexicanus* Mendoza-Palmero, Sereno-Uribe & Salgado-Maldonado, 2009\*

*Gyrodactylus mexicanus* Mendoza-Palmero, Sereno-Uribe & Salgado-Maldonado, 2009: 315.

HOSTS. — Actinopterygii; Fins, gills.

GEOGRAPHIC DISTRIBUTION. — Ciudad de México. Lago de Chapultepec: *Goodea atripinnis*, *Skiffia lermæ* (Martínez-Aquino *et al.* 2014).

Estado de México. Laguna de Chicahuapan: *Girardinichthys multiradiatus* (Mendoza-Palmero *et al.* 2009; Sereno-Uribe *et al.* 2012).

Guanajuato. Presa Ignacio Allende: *Xenotoca variata* (Martínez-Aquino *et al.* 2014); Río La Laja (Atotonilco): *G. atripinnis* (Martínez-Aquino *et al.* 2014); Río La Laja: *G. atripinnis* (Salgado-Maldonado 2006); Río La Laja (Rincón de Los Remedios): *G. atripinnis* (Salgado-Maldonado 2006); Río La Laja (Soria La Huerta): *G. atripinnis* (Salgado-Maldonado 2006).

Michoacán. Manantial Chapultepec: *Allotoca dugesii* (Martínez-Aquino *et al.* 2014).

SPECIMENS IN COLLECTIONS. — CNHE (6307-8, 6745-8, 7128, 9218)<sup>(H, P)</sup>; IPCAS (M-472)<sup>(P)</sup>.

#### REMARK

According to Martínez-Aquino *et al.* (2014), the specimens reported by Salgado-Maldonado (2006) belong to *G. mexicanus*.

*Gyrodactylus microdactylus* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015\*

*Gyrodactylus microdactylus* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015b: 3345.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — Veracruz. Río Bobos (Filipinas): *Poecilia mexicana* (García-Vásquez *et al.* 2015b).

SPECIMENS IN COLLECTIONS. — CNHE (9392)<sup>(H)</sup>.

*Gyrodactylus neotropicalis* Kristky & Fritts, 1970

*Gyrodactylus neotropicalis* Kristky & Fritts, 1970: 67.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — Yucatán. Cenote Noc-choncunchey: *Astyanax fasciatus* (Mendoza-Franco *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CNHE (3718).

*Gyrodactylus pakan* Razo-Mendivil, García-Vásquez & Rubio-Godoy, 2016\*

*Gyrodactylus pakan* Razo-Mendivil, García-Vásquez & Rubio-Godoy, 2016: 392.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — Veracruz. Río La Antigua (Apazapán), Río Bobos (Filipinas): *Astyanax aeneus* (Razo-Mendivil *et al.* 2016).

SPECIMENS IN COLLECTIONS. — CNHE (9933-6)<sup>(H, P)</sup>; CMNPA (2015-0001).

*Gyrodactylus pseudobullatarudis* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015\*

*Gyrodactylus pseudobullatarudis* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015b: 3346.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — Querétaro. Río Moctezuma (Vega de Ramírez): *Poecilia mexicana* (Rubio-Godoy *et al.* 2010, 2015b, 2016). Veracruz. Rancho El Clarín (Tlapacoyan): *Poeciliopsis gracilis* (García-Vásquez *et al.* 2015b); Río La Antigua (Apazapán): *Xiphophorus hellerii* (García-Vásquez *et al.* 2015b); Río Bobos: *P. gracilis* (García-Vásquez *et al.* 2015b); Río Pixquiac (Xalapa): *X. hellerii* (Rubio-Godoy *et al.* 2010).

SPECIMENS IN COLLECTIONS. — CNHE (7132-3, 9393-6)<sup>(H, P)</sup>; USNM (1267906-7)<sup>(P)</sup>.

#### REMARK

Some part of this material was originally identified as *Gyrodactylus bullatarudis* by Rubio-Godoy *et al.* (2010), but according to García-Vásquez *et al.* (2015b) it belongs to *G. pseudobullatarudis*.



*Gyrodactylus salmonis* Yin & Sproston, 1948\*

*Gyrodactylus salmonis* Yin & Sproston, 1948: 57-85.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Río Pixquiac (Xalapa): *Oncorhynchus mykiss* (Rubio-Godoy *et al.* 2012).

SPECIMENS IN COLLECTIONS. — CNHE (7541); NHMUK (2011.10.19.1-5).

*Gyrodactylus* sp.

HOSTS. — Actinopterygii; Fins, gills, skin.

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Laguna Ojo de Liebre: *Gillichthys mirabilis* (Martin & Multani 1970)\*\*; Oasis San José del Cabo: *Poecilia reticulata* (Méndez *et al.* 2010).

**Campeche.** Laguna Palizada: *Parachromis managuensis* (Vidal-Martínez *et al.* 2001); Zoh Laguna: *Cichlasoma geddesi*, *Thorichthys meeki* (Vidal-Martínez *et al.* 2001).

**Ciudad de México.** ND: *Carassius auratus*, *Oncorhynchus mykiss* (see Flores-Crespo & Flores-Crespo 2003).

**Chiapas.** Ejido Reforma Agraria (Marqués de Comillas): *Rocio octofasciata* (Mendoza-Palmero *et al.* 2017); Lago Paraíso (El Raizal): *T. meeki* (Salgado-Maldonado *et al.* 2011a); Puente La Calzada: *Petenia splendida* (Salgado-Maldonado *et al.* 2011a); Río Pando: *Rhamdia laticauda* (Salgado-Maldonado *et al.* 2011a); Río Suchiapa: *Poecilia mexicana* (Salgado-Maldonado *et al.* 2011a); Río Vado Ancho: *Gobiomorus maculatus* (Salgado-Maldonado *et al.* 2011a).

**Coahuila.** Cuatro Ciénegas: *Cyprinodon atrovus* (Aguilar-Aguilar *et al.* 2015); Manantial Maris, Río Álamos: *Astyanax mexicanus* (Loya-Cancino 2012).

**Durango.** Puente Lajas 1: *Gila conspersa* (Pérez-Ponce de León *et al.* 2010); Puente Lajas 2: *A. mexicanus* (Pérez-Ponce de León *et al.* 2010); Río Nazas (poblado de Nazas): *Notropis nazas* (Pérez-Ponce de León *et al.* 2010); Río Nazas (puente en la carretera Rodeo-Hidalgo de Parral, desviación a Abasolo): *Lepomis macrochirus* (Pérez-Ponce de León *et al.* 2010); Río Piaxtla (San Dimas): *Camptostoma ornatum* (Aguilar-Aguilar *et al.* 2010); Río Ramos (poblado El Olote): *Catostomus nebuliferus* (Pérez-Ponce de León *et al.* 2010).

**Estado de México.** Arroyo Santiago Tiacaque (Ixtlahuaca), Bordo Cimmyt (Metepéc), Bordo Parque Sierra Morelos (Toluca), Bordo San Pedro del Rosal (Atlatomulco), Laguna Salazar (Ocoyoacac), Presa San Juanico (Acambay): *Girardinichthys multiradiatus* (Sánchez-Nava *et al.* 2004); Laguna de Chicahuapán: *Aztecula sallaei* (Salgado-Maldonado 2009), *G. multiradiatus* (Salgado-Maldonado *et al.* 2001b); Sánchez-Nava *et al.* 2004); Presa Trinidad Fabela: *Goodea atripinnis* (Mendoza-Palmero 2007); ND: *C. auratus*, *O. mykiss* (see Flores-Crespo & Flores-Crespo 2003).

**Guanajuato.** El Fresno: *G. atripinnis*, *Heterandria bimaculata* (Rubio-Godoy *et al.* 2016); Presa Ignacio Allende: *Cyprinus carpio*, *Xenotoca variata* (Jiménez-Cortés 2003)\*\*; Río La Laja: *G. atripinnis* (Salgado-Maldonado 2006; Mendoza-Palmero 2007); Río La Laja (Atotonilco): *G. atripinnis* (Mendoza-Palmero 2007); Río La Laja (La Cienegueta): *Poeciliopsis infans* (Salgado-Maldonado 2006); Río La Laja (Presa Ignacio Allende): *X. variata* (Mendoza-Palmero 2007); Río La Laja (Rincón de Los Remedios): *G. atripinnis* (Salgado-Maldonado 2006; Mendoza-Palmero 2007); Río La Laja (Soria La Huerta): *G. atripinnis* (Salgado-Maldonado 2006).

**Hidalgo.** Lago de Tecocomulco: *Girardinichthys viviparus* (Bautista-Hernández 2008; Alemán-García 2009); Río Metztlán: *Poeciliopsis gracilis* (Porraz-Álvarez 2006)\*\*.

**Jalisco.** Lago de Chapala: *G. atripinnis*, *P. infans* (Rubio-Godoy *et al.* 2016); Manantial La Noria, Manantial Ramón Simón: *Xenotoca melanosoma* (Mendoza-Palmero 2007); Presa Valle de Juárez: *P. infans* (Salgado-Maldonado *et al.* 2001a).

**Michoacán.** Araro: *P. infans* (Rubio-Godoy *et al.* 2016); Manantial Chapultepec: *Allotoca dugesii*, *G. atripinnis*, *Skiffia lermæ*, *Zoogoteticus quitzeoensis* (Mendoza-Palmero 2007); Manantial La Mintzita: *Z. quitzeoensis* (Mendoza-Palmero 2007).

**Morelos.** Centro Acuicola Atlacomulco: *C. carpio*, *C. auratus* (Caspeta-Mandujano *et al.* 2009; Hernández-Ocampo *et al.* 2012), *Pterygoplichthys multiradiatus*, *P. reticulata* (Hernández-Ocampo *et al.* 2012); Centro Acuicola de Cuautlita: *Trichogaster lalius*, *P. multiradiatus* (Hernández-Ocampo *et al.* 2012); Centro Acuicola El Potrero: *C. auratus* (Hernández-Ocampo *et al.* 2012); Lago Tonatiahua (Lagunas de Zempoala): *G. multiradiatus* (Caspeta-Mandujano *et al.* 2009); ND: *C. carpio*, *Notropis boucardi* (see Flores-Crespo & Flores-Crespo 2003); Río Amacuzac (Las Planchas): *N. boucardi* (Flores-Sotelo 1998)\*\*; *P. gracilis* (Salgado-Maldonado *et al.* 2001a)\*\*.

**Nayarit.** Río Santiago (Aguamilpa): *Poecilia sphenops* (Salgado-Maldonado *et al.* 2001b).

**Oaxaca.** Arroyo bajo el Puente Río San Marcos: *Astyanax fasciatus* (Mora-Bonilla 2010); Arroyo Santiago Domingullo: *P. mexicana*, *P. gracilis* (Salgado-Maldonado *et al.* 2005a); Río Grande (Guelatao): *Astyanax aeneus* (Salgado-Maldonado *et al.* 2005a), *A. fasciatus* (Mora-Bonilla 2010); Río San Antonio Nanahuatipán: *A. aeneus* (Mora-Bonilla 2010); Río La Reforma, Río Pueblo Viejo, Río San José de las Flores: *Profundulus punctatus* (Pinacho-Pinacho *et al.* 2014).

**Puebla.** Canal Calipán: *P. mexicana* (Salgado-Maldonado *et al.* 2005a)\*\*.

**Querétaro.** Arroyo Presa del Carmen: *G. atripinnis* (Aguilar-Castellanos 2002)\*\*; Río Estórax: *A. mexicanus* (Aguilar-Castellanos 2002\*\*; Mora-Bonilla 2010); Río Oásis: *A. mexicanus* (Aguilar-Castellanos 2002\*\*; Mora-Bonilla 2010); Río Las Zúñigas: *G. atripinnis* (Mendoza-Palmero 2007), *Yuriria alta* (Aguilar-Castellanos 2002)\*\*; Río Moctezuma (Vega de Ramírez): *P. reticulata* (Rubio-Godoy *et al.* 2016); San Miguel Tlaxcaltepec: *G. atripinnis*, *H. jonesii* (Rubio-Godoy *et al.* 2016); Santiago Mezquitlán: *G. atripinnis*, *P. mexicana* (Rubio-Godoy *et al.* 2016).

**San Luis Potosí.** Cueva La Tinaja: *A. mexicanus* (Santacruz-Vázquez 2013).

**Tabasco.** Laguna El Espino: *Thorichthys helleri*, *T. meeki* (Vidal-Martínez *et al.* 2001); Río Muerto (Tacotalpa): *Thorichthys pasionis* (Contreras-Denis 1997)\*\*.

**Tamaulipas.** Cueva Pachón: *A. mexicanus* (Santacruz-Vázquez 2013); ND: *Ictalurus punctatus* (see Flores-Crespo & Flores-Crespo 2003).

**Undetermined.** *Notropis* sp. (Price & Henderson 1969)\*\*; Río Lerma Santiago: *P. mexicana* (Pineda-López *et al.* 2005)\*\*; Río Papaloapan: *P. mexicana*, *P. gracilis* (Pineda-López *et al.* 2005)\*\*.

**Veracruz.** ND: *Xiphophorus hellerii* (Rubio-Godoy *et al.* 2016); Río La Antigua (Agua Bendita): *H. bimaculata* (Salgado-Maldonado 2006); Río La Antigua (Apazapan): *A. mexicanus* (Salgado-Maldonado *et al.* 2016); Río Máquinas: *P. mexicana*, *Vieja fenestrata* (Salgado-Maldonado *et al.* 2005a); Tlacotalpan: *Dormitator maculatus*, *G. maculatus*, *Rhamdia guatemalensis* (Salgado-Maldonado *et al.* 2005a).

**Yucatán.** Cenote Homún: *Gambusia yucatana* (Mendoza-Franco *et al.* 1999); Cenote Noc-choncunche: *Thorichthys aureus* (Vidal-Martínez *et al.* 2001); Laguna de Celestún: *Floridichthys carpio* (Sosa-Medina *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CHE-UAHE (00041); CNHE (6172, 6513, 6957-6960).

REMARK

Specimens of Pérez-Ponce de León *et al.* (2010), Mendoza-Palmero (2007), and Caspeta-Mandujano *et al.* (2009) recorded as several species of the genus (sp. 1, sp. 2, sp. 3, etc.), are reported herein together. The specimens from Estado de México were determined as *Gyrodactylus elegans* von Nordman, 1832 by Salgado-Maldonado *et al.* (2001b), and

Sánchez-Nava *et al.* (2004) but Kohn *et al.* (2006) pointed out that this material represents two new species and refers them as *Gyrodactylus* spp. In accordance with Rubio-Godoy *et al.* (2010), these two records might belong to *Gyrodactylus lamothei* or *G. mexicanus*, both species recently described from *G. multiradiatus*.

#### NOTE

The following records of *Gyrodactylus* sp. listed by Kohn *et al.* (2006) do not agree with the information presented in the original references: *C. geddesi*, and *Parachromis managuense* from Yucatán, and Tabasco; *Erimystax punctatus*, and *P. gracilis* from Jalisco; *Rhamdia guatemalensis*, and *V. fenestrata* from Oaxaca; *T. helleri* and *T. meeki* from Yucatán; *T. aureus* from Tabasco; and *G. multiradiatus* from Michoacán.

#### *Gyrodactylus spathulatus* Mueller, 1936\*

*Gyrodactylus spathulatus* Mueller, 1936a: 60.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Durango.** Poza en el arroyo Torreones, Puente Lajas 1: *Gila conspersa* (Pérez-Ponce de León *et al.* 2010); Río Nazas (poblado de Nazas): *Ictalurus* cf. *pricei* (Pérez-Ponce de León *et al.* 2010); Río Ramos (poblado El Olote): *Catostomus nebuliferus* (Pérez-Ponce de León *et al.* 2010).

SPECIMENS IN COLLECTIONS. — None.

#### *Gyrodactylus sprostonae* Ling, 1962\*

*Gyrodactylus sprostonae* Ling, 1962: 67-78.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Ciudad de México.** La Cantera Oriente (Reserva Ecológica del Pedregal de San Ángel): *Cyprinus carpio* (Mendoza-Palmero *et al.* 2007).

SPECIMENS IN COLLECTIONS. — CNHE (6300, 7119).

#### *Gyrodactylus takoke* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015\*

*Gyrodactylus takoke* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015b: 3347.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Puebla.** Río Tecolutla (Tenampulco): *Heterandria bimaculata* (García-Vásquez *et al.* 2015b). **Veracruz.** Tlapacoyan: *Poeciliopsis gracilis* (García-Vásquez *et al.* 2015b); Río La Antigua (Apazapán), Río Bobos (Filipinas): *H. bimaculata* (García-Vásquez *et al.* 2015b).

SPECIMENS IN COLLECTIONS. — CNHE (9397-99, 9401-4) (H, P); USNM (1270617-20) (P).

#### *Gyrodactylus taken*

Razo-Mendivil, García-Vásquez & Rubio-Godoy, 2016\*

*Gyrodactylus taken* Razo-Mendivil, García-Vásquez & Rubio-Godoy, 2016: 397.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Río Bobos (Filipinas): *Astyanax aeneus* (Razo-Mendivil *et al.* 2016).

SPECIMENS IN COLLECTIONS. — CNHE (9937-9) (H, P); CMNPA (2015-0002) (P).

#### *Gyrodactylus tomahuac* Rubio-Godoy, Razo-Mendivil, García-Vásquez, Freeman, Shinn & Paladini, 2016\* (Fig. 4A)

*Gyrodactylus tomahuac* Rubio-Godoy, Razo-Mendivil, García-Vásquez, Freeman, Shinn & Paladini, 2016: 10.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Guanajuato.** El Fresno: *Goodea atripinnis* (Rubio-Godoy *et al.* 2016).

**Michoacán.** Araro: *G. atripinnis* (Rubio-Godoy *et al.* 2016).

**Querétaro.** Río Moctezuma (Vega de Ramírez), San Miguel Tlaxcaltepec: *G. atripinnis* (Rubio-Godoy *et al.* 2016).

SPECIMENS IN COLLECTIONS. — CNHE (9991-2; 9930-2; 9993-5) (H, P); CMNPA (2015-0009-11) (P).

#### *Gyrodactylus unami*

García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015\*

*Gyrodactylus unami* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015b: 3348.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Río Bobos: *Poeciliopsis gracilis* (García-Vásquez *et al.* 2015b).

SPECIMENS IN COLLECTIONS. — CNHE (9406-7) (H, P); USNM (126713-15) (P).

#### *Gyrodactylus xalapensis*

Rubio-Godoy, Paladini, García-Vásquez & Shinn, 2010\*

*Gyrodactylus xalapensis* Rubio-Godoy, Paladini, García-Vásquez & Shinn, 2010: 11.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Río Pixquiac (Xalapa): *Heterandria bimaculata* (Rubio-Godoy *et al.* 2010).

SPECIMENS IN COLLECTIONS. — CNHE (7131) (P); NHMUK (2010.3.11.10-13) (H, P).

***Gyrodactylus xtachuna* García-Vásquez,  
Razo-Mendivil & Rubio-Godoy, 2015b\***

*Gyrodactylus xtachuna* García-Vásquez, Razo-Mendivil & Rubio-Godoy, 2015b: 3349.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Puebla.** Río Tecolutla (Tenampulco): *Poeciliopsis gracilis* (García-Vásquez *et al.* 2015b).

**Querétaro.** Río Moctezuma (Vega de Ramírez): *Poecilia mexicana* (Rubio-Godoy *et al.* 2016); **Veracruz.** Río Bobos (Filipinas): *P. gracilis* (García-Vásquez *et al.* 2015b); Río Nautla (Filipinas): *P. mexicana*, *Heterandria bimaculata* (García-Vásquez *et al.* 2015b).

SPECIMENS IN COLLECTIONS. — CNHE (9409-11) (H, P); USNM (1267908-9) (P).

***Gyrodactylus yacatli* García-Vásquez,  
Hansen, Christison, Bron & Shinn, 2011\***

*Gyrodactylus yacatli* García-Vásquez, Hansen, Christison, Bron & Shinn, 2011: 27.

HOSTS. — Actinopterygii; Fins, gills.

GEOGRAPHIC DISTRIBUTION. — **Sinaloa.** Culiacán: *Oreochromis niloticus* (García-Vásquez *et al.* 2011).

**Tabasco.** Gania de Pucté (Municipio de Chablé): *O. niloticus* (García-Vásquez *et al.* 2011).

**Yucatán.** CINVESTAV-Mérida: *O. niloticus* (García-Vásquez *et al.* 2011).

SPECIMENS IN COLLECTIONS. — IPCAS (M-480) (P); NHMUK (2008.12.15.14-15, 2009.6.2.14) (H, P).

REMARK

Records of Tabasco and Yucatán states were published as *Gyrodactylus* sp. 1 by García-Vásquez *et al.* (2010).

***Scleroductus lyrocleithrum*  
Kritsky, Boeger, Mendoza-Franco & Vianna, 2013\***

*Scleroductus lyrocleithrum* Kritsky, Boeger, Mendoza-Franco & Vianna, 2013: 7.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Yucatán.** Cenote Ixin-há: *Rhamdia guatemalensis* (Kritsky *et al.* 2013).

SPECIMENS IN COLLECTIONS. — CNHE (7618-9) (H, P); HWML (49511) (P); NHMUK (2011.2.2.21-23) (P); USNM (104271-2) (P).

Family LOIMOIDEAE Price, 1936

***Loimos winteri* Caballero & Bravo-Hollis, 1961**

*Loimos winteri* Caballero & Bravo-Hollis, 1961a: 205.

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sonora.** Bahía de Guaymas: *Carharbinus obscurus* (Caballero & Bravo-Hollis 1961a).

SPECIMENS IN COLLECTIONS. — CNHE (86-7) (H, P).

NOTE

The specific name *Loimos parawilsoni* Bravo-Hollis, 1970 (sic) listed by Kohn *et al.* (2006) is an invalid name, resulting from the combination of names (*Loimos winteri* + *Loimosina parawilsoni*) made by these authors.

***Loimosina parawilsoni* Bravo-Hollis, 1970  
(Fig. 4E)**

*Loimosina parawilsoni* Bravo-Hollis, 1970: 147.

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sinaloa.** Mazatlán: *Sphyrna lewini* (Bravo-Hollis 1970).

SPECIMENS IN COLLECTIONS. — CNHE (153-4) (H, P).

Family MONOCOTYLIDAE Taschenberg, 1879

***Anoplocotyloides papillatus* (Doran, 1953)**

*Heterocotyle papillatus* Doran, 1953: 146.

*Anoplocotyloides papillatus* – Young 1967: 395.

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sinaloa.** Mazatlán: *Pseudobatos glaucostigmus* (Bravo-Hollis 1969).

SPECIMENS IN COLLECTIONS. — CNHE (178).

REMARK

Based on the morphology of the posterior hooks of the haptor, Neifar *et al.* (2002) considered that this material contains two different monocotylideans.

***Calicotyle californiensis* Bullard & Overstreet, 2000<sup>§</sup>**

*Calicotyle californiensis* Bullard & Overstreet, 2000: 939.

HOSTS. — Elasmobranchii; Body cavity.

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Bahía de Los Ángeles: *Mustelus californicus* (Bullard & Overstreet 2000).

SPECIMENS IN COLLECTIONS. — CNHE (3907) (H).

***Calicotyle kroyeri* Diesing, 1850**

*Calicotyle kroyeri* Diesing, 1850: 431.

HOSTS. — Elasmobranchii; Cloaca, rectum.





FIG. 4. — Micrographs of some monogeneans representatives of the 29 families recorded in vertebrates of Mexico: **A**, Gyrodactylidae: *Gyrodactylus tomahuac* Rubio-Godoy, Razo-Mendivil, García-Vásquez, Freeman, Shinn & Paladini, 2016 (CNHE 9991); **B**, Loimoidae: *Loimosina parawilsoni* Bravo-Hollis, 1970 (CNHE 153); **C**, Hexabothriidae: *Dasyonchocotyle dasyatis* (Yamaguti, 1968) (CNHE 9361); **D**, Hexostomatidae: *Neohexostoma euthynni* (Meserve, 1938) (CNHE 1448); **E**, Heteraxinidae: *Probursata ayalai* Lamothe-Argumedo & García-Prieto, 1999 (CNHE 2660); **F**, Macrovalvitrematidae: *Macrovalvitrema sinaloense* Caballero & Bravo-Hollis, 1955 (CNHE 109). Scale bars: A, 20  $\mu$ m; B-F, 200  $\mu$ m.

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Bancos de Campeche: *Anacanthobatis foliostris*, *Dipturus olsen* (Chisholm *et al.* 1997).

SPECIMENS IN COLLECTIONS. — None.

*Calicotyle urobati* Bullard & Overstreet, 2000<sup>§</sup>  
(Fig. 5C)

*Calicotyle urobati* Bullard & Overstreet, 2000: 941.

HOSTS. — Elasmobranchii; Cloaca, rectum.

GEOGRAPHIC DISTRIBUTION. — **Baja California**. Bahía de Los Ángeles: *Urobatis halleri*, *Urobatis maculatus* (Bullard & Overstreet 2000); Bahía de San Francisquito: *Urobatis halleri* (Bullard & Overstreet 2000); Puertecitos: *U. maculatus* (Bullard & Overstreet 2000). **Baja California Sur**. Santa Rosalía: *U. halleri*, *U. maculatus* (Bullard & Overstreet 2000).

SPECIMENS IN COLLECTIONS. — CNHE (3908-9) (H, P); HWML (15365-6) (P); USNM (89777-8) (P).

DASYBATOTREMINAE gen. sp.\*

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Acapulco: *Rhinoptera steindachneri* (Carbajal-Violante 2012).

SPECIMENS IN COLLECTIONS. — CNHE (8287-8).

*Decacotyle floridana* (Pratt, 1910)

*Monocotyle floridana* Pratt, 1910: 3.

*Heterocotyle floridana* – Price 1938: 109-126.

*Heterocotyle aetobatis* – Hargis 1955: 1-16.

*Papillocotyle floridana* – Young 1967: 405.

*Alloheterocotyle aetobatis* Yamaguti, 1968: 59.

*Decacotyle floridana* – Chisholm & Whittington 1998: 11.

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Ciudad del Carmen: *Aetobatus narinari* (present study); Estuario Champotón: *A. narinari* (Pulido-Flores & Monks 2005).

**Quintana Roo**. Holbox: *A. narinari* (Pulido-Flores & Monks 2005).

SPECIMENS IN COLLECTIONS. — CNHE (327, 4368).

REMARK

The specimens from Ciudad del Carmen were identified as *Heterocotyle aetobatis* Hargis, 1955, but this species was considered as a synonym of *Decacotyle floridana* by Chisholm & Whittington (1998).

*Denarycotyle gardneri*

Pulido-Flores, Monks & Violante-González, 2015\*

*Denarycotyle gardneri* Pulido-Flores, Monks & Violante-González, 2015: 584.

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Acapulco (Playa las Hamacas): *Rhinoptera steindachneri* (Pulido-Flores *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (9558-9) (H, P); HWML (75364-7) (P).

*Dendromonocotyle cortesi* Bravo-Hollis, 1969

*Dendromonocotyle cortesi* Bravo-Hollis, 1969: 170.

HOSTS. — Elasmobranchii (skin).

GEOGRAPHIC DISTRIBUTION. — **Baja California**. Bahía de Los Ángeles, Isla Rasa: “*Mantarraya gris*” (Bravo-Hollis 1969).

SPECIMENS IN COLLECTIONS. — CNHE (149-50) (H, P).

*Dendromonocotyle octodiscus* Hargis, 1955

*Dendromonocotyle octodiscus* Hargis, 1955: 206.

HOSTS. — Elasmobranchii (skin).

GEOGRAPHIC DISTRIBUTION. — **Golfo de Mexico** (Mexico): *Hypanus americanus*, *Urobatis jamaicensis* (Fehlauer-Ale & Littlewood 2011).

**Quintana Roo**. Blanquizal, Holbox: *H. americanus* (Pulido-Flores & Monks 2005); El Paso de los Cedros (Cozumel), Ixmapuit (Isla Contoy), Xcalak: *U. jamaicensis* (Pulido-Flores & Monks 2005).

**Yucatán**. Ría Lagartos: *U. jamaicensis* (Pulido-Flores & Monks 2005).

SPECIMENS IN COLLECTIONS. — CNHE (4362-3, 4366-7); ECOPA (001); USNM (90353).

NOTE

The record of *D. octodiscus* in *Dasyatis americana* from Yucatán referred by Kohn *et al.* (2006) is not contained in the original source (Pulido-Flores & Monks 2005).

*Euzetia lamothei*

Pulido-Flores & Monks, 2008\*

*Euzetia lamothei* Pulido-Flores & Monks, 2008: 84.

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Ciudad del Carmen: *Rhinoptera bonasus* (Pulido-Flores & Monks 2008).

**Quintana Roo**. Isla Contoy: *R. bonasus* (Pulido-Flores & Monks 2008).

SPECIMENS IN COLLECTIONS. — CNHE (6067-8) (H, P); HWML (48817) (P); CHE (P00056) (P).

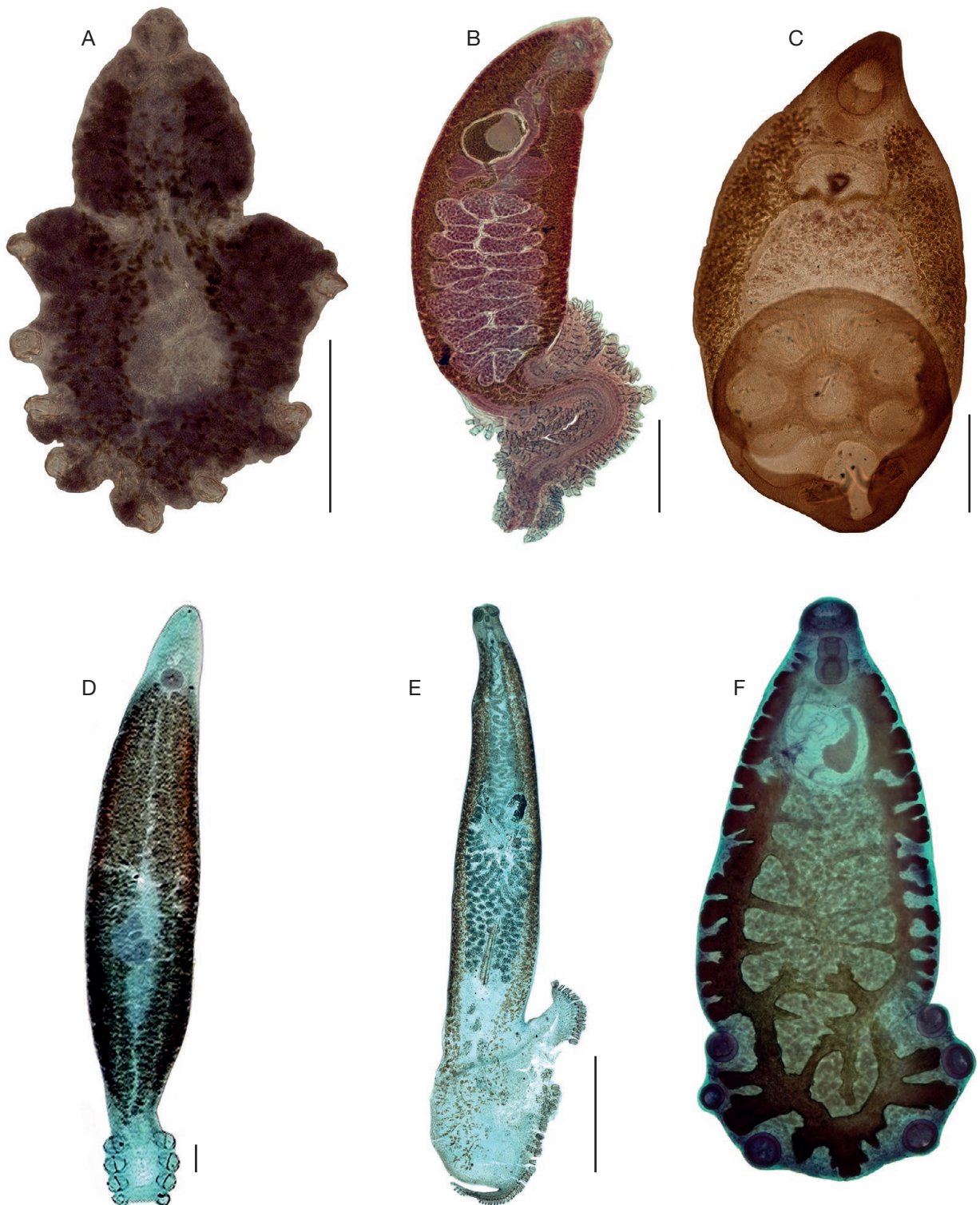


FIG. 5. — Micrographs of some monogeneans representatives of the 29 families recorded in vertebrates of Mexico: **A**, Mazocraeidae: *Mazocraeoides bychowskyi* Caballero & Caballero-Rodríguez, 1976 (CNHE 120); **B**, Microcotylidae: *Magniexcipula lamothei* Bravo-Hollis, 1980 (CNHE 202); **C**, Monocotylidae: *Calicotyle californiensis* (CNHE 3907); **D**, Octomacridae: *Octomacrum mexicanum* Lamothe-Argumedo, 1980 (CNHE 1329); **E**, Paramonaxinidae: *Paramonaxine yamagutii* Bravo-Hollis, 1978 (CNHE 207); **F**, Polystomatidae: *Riojatrema bravoae* Lamothe-Argumedo, 1963 (CNHE 182). Scale bars: A-E, 200  $\mu$ m; F, 2 mm.



*Heterocotyle* sp.\*

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Acapulco: *Rhinoptera steindachneri* (Carbajal-Violante 2012).

SPECIMENS IN COLLECTIONS. — CNHE (8290).

MONOCOTYLIDAE gen. sp.†

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Bahía Almejas: *Rhinoptera steindachneri* (Gómez del Prado & Euzet 1997).

SPECIMENS IN COLLECTIONS. — None.

REMARK

This material was recorded as “*Quadritestis almehensis* n. gen., n. sp.”, but its description was not formally published.

*Spinuris lophosoma* Doran, 1953§

*Spinuris lophosoma* Doran, 1953: 147.

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Bahía Almejas: *Pseudobatos productus* (Gómez del Prado & Euzet 1999).

SPECIMENS IN COLLECTIONS. — None.

*Spinuris mexicana* Bravo-Hollis, 1969

*Spinuris mexicana* Bravo-Hollis, 1969: 165.

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sinaloa**. Mazatlán: *Pseudobatos glaucostigmus* (Bravo-Hollis 1969).

SPECIMENS IN COLLECTIONS. — CNHE (151-2) (H, P).

*Spinuris zapterygis* Gómez del Prado & Euzet, 1999

*Spinuris zapterygis* Gómez del Prado & Euzet, 1999: 705.

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Bahía Almejas: *Zapteryx exasperata* (Gómez del Prado & Euzet 1999).

SPECIMENS IN COLLECTIONS. — CNHE (2975-6) (H, P); CP-MHN-UABCS (54) (P); MNHN 547HF (Tk80) (P); NHMUK (1997.1.28.1) (P); USNM (87037) (P).

Order POLYOPISTHOCOTYLEA Odhner, 1912

Family ALLODISCOCOTYLIDAE Tripathi, 1959

*Hargicola oligoplites* (Hargis, 1957)  
(Fig. 2A)

*Vallisia oligoplites* Hargis, 1957: 6.

*Hargicola oligoplites* – Lebedev 1970: 669.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nayarit**. Bahía de Matanchén: *Oligoplites altus* (present study).

**Sinaloa**. Laguna el Caimanero: *Centropomus* sp. (present study); Bahía de Topolobampo: *O. altus* (present study).

**Veracruz**. Playa Las Barrancas (Alvarado): *Oligoplites saurus* (Montoya-Mendoza *et al.* 2008); Playa Jicacal: *O. saurus* (Bravo-Hollis 1989).

SPECIMENS IN COLLECTIONS. — CNHE (243, 2658, 2664-5, 5893); MNHN-HEL695, MNHN-HEL696.

Family ALLOPYRAGRAPHORIDAE Yamaguti, 1963

*Allopyragraphorus caballeroi* (Zerecero, 1960)  
(Fig. 2B)

*Pyragraphorus caballeroi* Zerecero, 1960: 345.

*Allopyragraphorus caballeroi* – Yamaguti 1963: 252.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Colima**. Manzanillo: *Caranx hippos* (Zerecero 1960).

**Guerrero**. Zihuatanejo: *Caranx caballus* (Gómez del Prado 1977)\*\*.

**Jalisco**. Bahía de Chamela: *C. caballus* (Bravo-Hollis 1981a; Pérez-Ponce de León *et al.* 1999), *Caranx hippos* (Pérez-Ponce de León *et al.* 1999)\*\*.

**Oaxaca**. Salina Cruz: *C. hippos* (Bravo-Hollis 1985).

SPECIMENS IN COLLECTIONS. — CNHE (24, 47, 54, 270-1, 3118, 31120) (H, P).

*Allopyragraphorus hippos* (Hargis, 1956)\*

*Pyragraphorus hippos* Hargis, 1956b: 451.

*Allopyragraphorus hippos* – Yamaguti 1963: 252.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Playa Las Barrancas (Alvarado): *Caranx hippos* (Montoya-Mendoza 2009); Arrecife El Cabezo: *C. hippos* (Montoya-Mendoza *et al.* 2008).

SPECIMENS IN COLLECTIONS. — CNHE (6186-7).

*Allopyragraphorus incomparabilis* (MacCallum, 1917)

*Microcotyle incomparabilis* MacCallum, 1917: 63.

*Pyragraphorus incomparabilis* – Koratha 1955: 261.

*Allopyragraphorus incomparabilis* – Yamaguti 1963: 252.

HOSTS. — Actinopterygii (gills).

AXINIDAE gen. sp.<sup>§</sup>

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo**. Isla Mujeres: *Caranx crysos* (Bravo-Hollis & Salgado-Maldonado 1982).

SPECIMENS IN COLLECTIONS. — CNHE (67-8, 70).

*Allopyrgraphorus winteri*  
(Caballero & Bravo-Hollis, 1965)

*Helixaxine winteri* Caballero & Bravo-Hollis, 1965a: 537.

*Allopyrgraphorus winteri* – Bravo-Hollis & Salgado-Maldonado 1982: 9.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Campeche, Ciudad del Carmen: *Caranx hippos* (Bravo-Hollis & Salgado-Maldonado 1982). **Tamaulipas**. Laguna Madre (Punta Piedra): *Caranx latus* (Iruegas-Buentello 1999).

**Veracruz**. Tuxpan: *C. latus* (Caballero & Bravo-Hollis 1965a); Laguna de Sontecomapan: *C. hippos* (Bravo-Hollis & Salgado-Maldonado 1982).

SPECIMENS IN COLLECTIONS. — CNHE (62, 66, 176-7)<sup>(P)</sup>.

REMARK

This species was described as *Helixaxine winteri* by Caballero & Bravo-Hollis (1965a) who tentatively included it in Heteraxinidae. Mamaev & Parukhin (1981) described the second species of the genus *Helixaxine*, proposing its inclusion into Allopyrgraphoridae. Holotype deposited in the personal collection of Eduardo Caballero y Caballero.

Family AXINIDAE Monticelli, 1903

*Axine* sp.<sup>§</sup>

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Caranx hippos* (Pérez-Ponce de León *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CNHE (3430).

*Axine yamagutii* (Meserve, 1938)

*Cestracolpa yamagutii* Meserve, 1938: 69.

*Axine yamagutii* – Sproston 1946: 455.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Colima**. Isla Clarión: “Flying fish” (Meserve 1938).

SPECIMENS IN COLLECTIONS. — HWML (1445)<sup>(P)</sup>; USNM (009164)<sup>(H)</sup>.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Mugil curema* (Pérez-Ponce de León *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CNHE (3039).

*Axinoides gracilis* (Linton, 1940)

*Axine gracilis* Linton, 1940: 22.

*Nudaciraxine gracilis* – Price 1962a: 15. — Bravo-Hollis 1984a: 65.

*Axinoides gracilis* – Châari *et al.* 2016: 923.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Playa Jicacal: *Tylosurus acus* (Bravo-Hollis 1984a).

SPECIMENS IN COLLECTIONS. — CNHE (172).

NOTE

This species was included as *Nudaciraxine gracilis* in Heteraxinidae by Kohn *et al.* (2006), however it belongs to Axinidae according to WoRMS (2017).

*Axinoides jimenezii* Caballero & Bravo-Hollis, 1969

*Axinoides jimenezii* Caballero & Bravo-Hollis, 1969: 64.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Puerto de Veracruz: *Tylosurus crocodilus* (Caballero & Bravo-Hollis 1969).

SPECIMENS IN COLLECTIONS. — CNHE (94)<sup>(P)</sup>.

REMARK

Holotype in the personal collection of Eduardo Caballero y Caballero.

*Axinoides raphidoma* Hargis, 1956  
(Fig. 2C)

*Axinoides raphidoma* Hargis, 1956c: 155.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Tylosurus acus* (Pérez-Ponce de León *et al.* 1999)\*\*.

**Veracruz**. Puerto de Veracruz: *Tylosurus crocodilus* (Caballero & Bravo-Hollis 1969).

SPECIMENS IN COLLECTIONS. — CNHE (95, 3066).

*Chlamydxine resplendens*  
(Caballero, Bravo-Hollis & Grocott, 1954)<sup>§</sup>

*Axine resplendens* Caballero, Bravo-Hollis & Grocott, 1954: 81. — Pérez-Ponce de León *et al.* 1999: 20.

*Chlamydxine resplendens* – Price 1962a: 16.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Tylosurus acus* (Pérez-Ponce de León *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CNHE (3065).

*Nudaciraxine cabosanlucensis* Payne, 1990<sup>§</sup>

*Nudaciraxine cabosanlucensis* Payne, 1990: 93.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Cabo San Lucas: *Ablennes* sp. (Payne 1990).

SPECIMENS IN COLLECTIONS. — USNM (080948-9) (H, P).

Family CHAUHANEIDAE Euzet & Trilles, 1960

*Ahpua piscicola* Caballero & Bravo-Hollis, 1973

*Ahpua piscicola* Caballero & Bravo-Hollis, 1973: 33.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Ciudad del Carmen: *Caranx hippos* (Lamothe-Argumedo *et al.* 1997b).

**Oaxaca**. Puerto Ángel: *Decapterus muroadsi* (Lamothe-Argumedo *et al.* 1997b); Salina Cruz: *Caranx caballus*, *Caranx latus* (Lamothe-Argumedo *et al.* 1997b).

**Sinaloa**. Mazatlán: *Selene peruviana* (Lamothe-Argumedo *et al.* 1997b). **Tamaulipas**. Ciudad Madero: *Polydactylus octonemus* (Caballero & Bravo-Hollis 1973).

SPECIMENS IN COLLECTIONS. — CNHE (183-4, 359-63) (H, P); MNHN-HEL687, MNHN-HEL688.

REMARK

This species was originally included in Discocotylidae, but re-assigned to Chauhaneidae by Lebedev (1986).

NOTE

The following hosts and localities as presented in Kohn *et al.* (2006) for this monogenean species does not correspond to those indicated in the original references: *Caranx latus*, *Caranx caballus* and *Decapterus muroadsi* from Campeche and Sinaloa; *Caranx hippos* from Oaxaca and Sinaloa; and *Selene peruviana* from Oaxaca and Campeche.

*Cotyloatlantica pretiosa* Bravo-Hollis, 1984  
(Fig. 2F)

*Cotyloatlantica pretiosa* Bravo-Hollis, 1984b: 4.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo**. Isla Mujeres: *Sphyræna barracuda* (Bravo-Hollis 1984b).

**Veracruz**. Playa Jicacal: *S. barracuda*, *Sphyræna guachancho* (Bravo-Hollis 1984b); Puerto de Veracruz: *S. barracuda* (Bravo-Hollis 1984b).

SPECIMENS IN COLLECTIONS. — CNHE (195-99) (H, P).

NOTE

The record of *C. pretiosa* in *S. guachancho* from Quintana Roo, presented by Kohn *et al.* (2006), does not correspond to those indicated in the original source.

*Oaxacotyle oaxacensis*  
(Caballero & Bravo-Hollis, 1963)\*\*

*Pseudomazocraes oaxacensis* Caballero & Bravo-Hollis, 1963: 185.

*Oaxacotyle oaxacensis* – Lebedev 1984: 23.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Bahía de La Paz: *Peprilus simillimus* (Lamothe-Argumedo *et al.* 1997b).

**Oaxaca**. Salina Cruz: *Peprilus medius* (Caballero & Bravo-Hollis 1963).

SPECIMENS IN COLLECTIONS. — CNHE (289-90, 376) (H, P); MNHN-HEL689.

REMARK

This material considered as type species of the new genus *Oaxacotyle* by Lebedev (1984).

NOTE

*Oaxacotyla oaxacensis* (sic) was included in Mazocraeidae by Kohn *et al.* (2006).

*Pseudochauhanea elongatus*  
Kritsky, Bilqees & Leiby, 1972

*Pseudochauhanea elongatus* Kritsky, Bilqees & Leiby, 1972: 231.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nayarit**. San Blás: *Sphyræna ensis* (Lamothe-Argumedo *et al.* 1997b).

SPECIMENS IN COLLECTIONS. — CNHE (338).

*Pseudochauhanea mexicana* Lamothe-Argumedo, 1966

*Pseudochauhanea mexicana* Lamothe-Argumedo, 1966: 129.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Bahía de La Paz: *Calamus brachysomus* (Lamothe-Argumedo *et al.* 1997b).

**Guerrero**. Acapulco: *Sphyræna ensis* (Lamothe-Argumedo 1966). **Jalisco**. Bahía de Chamela: *S. ensis* (Pérez-Ponce de León *et al.* 1999)\*\*.



**Nayarit.** San Blás: *S. ensis* (Lamothe-Argumedo *et al.* 1997b)\*\*.  
**Quintana Roo.** Banco Chinchorro, Isla Mujeres, Puerto Morelos: *Sphyaena barracuda* (Bravo-Hollis & Lamothe-Argumedo 1987).

SPECIMENS IN COLLECTIONS. — CNHE (212-17, 232-33, 311, 339-41, 3067) (H, P); MNHN-HEL686.

*Pseudomazocraes monsivaisae*  
 Caballero & Bravo-Hollis, 1955

*Pseudomazocraes monsivaisae* Caballero & Bravo-Hollis, 1955: 107.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero.** Zihuatanejo: *Caranx hippos* (Gómez del Prado 1977)\*\*.

**Jalisco.** Puerto Vallarta: *Balistes polylepis*\*\* (Caballero & Bravo-Hollis 1955).

**Oaxaca.** Puerto Escondido: *Selar crumenophthalmus* (Lamothe-Argumedo 1970); Salina Cruz: *C. hippos* (Lamothe-Argumedo 1970).

**Sinaloa.** Mazatlán: *Carangoides otrynter*\*\*, *Selene brevoortii* (Caballero & Bravo-Hollis 1955), *Selar* sp. (Lamothe-Argumedo *et al.* 1997b).

SPECIMENS IN COLLECTIONS. — CNHE (225-6, 258-61, 269, 333) (H, P).

REMARK

Hargis (1957, 1959) emended the generic diagnoses of *Pseudomazocraes* Caballero & Bravo-Hollis, 1955, pointing out that the original description of *P. monsivaisae* included more than one species. However, Euzet & Wahl (1970) and Kohn *et al.* (1992) re-studied the type specimens, validating the original determination.

NOTE

Kohn *et al.* (2006) included this species in the family Mazocraeidae, not including the following records: *P. monsivaisae* in *B. polylepis* from Jalisco; in addition, the records of this monogenean species in *Balistes polylepis* and *Carangoides otrynter* from Oaxaca, and in *Selene brevoortii* from Jalisco are not actually recorded in the original references.

*Pseudomazocraes riojai*  
 (Caballero & Bravo-Hollis, 1963)

*Vallisia riojai* Caballero & Bravo-Hollis, 1963: 174.

*Pseudomazocraes riojai* – Lebedev 1970: 669.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Oaxaca.** Salina Cruz: *Caranx hippos* (Caballero & Bravo-Hollis 1963).

SPECIMENS IN COLLECTIONS. — CNHE (283-5, 332) (H, P).

NOTE

Kohn *et al.* (2006) included this species in the family Mazocraeidae.

*Pseudomazocraes selene* Hargis, 1957

*Pseudomazocraes selene* Hargis, 1957: 10.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Caranx caballus*, *Caranx hippos*, *Trachinotus rhodopus* (Pérez-Ponce de León *et al.* 1999) \*\*.

**Veracruz.** Arrecife El Cabezo: *Caranx crysos* (Montoya-Mendoza *et al.* 2008), *C. hippos* (Montoya-Mendoza 2009); El Saladero, Laguna de Tamiahua: *Selene vomer* (Porraz-Álvarez 2006); Playa Jicacal: *C. crysos*, *C. hippos*, *S. vomer* (Bravo-Hollis 1989); Playa Las Barrancas (Alvarado): *C. crysos*, *C. hippos*, *Chloroscombrus chrysurus*, *Selene setapinnis*, *Selene spixii*, *S. vomer* (Montoya-Mendoza *et al.* 2008), Tuxpan: *Caranx latus*, *S. vomer* (Caballero & Bravo-Hollis 1965b).

SPECIMENS IN COLLECTIONS. — CHE-UAHE (00038); CNHE (245-7, 256-7, 3096, 3100, 5886-8, 6191); NHMUK (2007.7.25.24-27); USNM (99968-70).

NOTE

Kohn *et al.* (2006) included this species in the family Mazocraeidae.

*Salinacotyle mexicana* (Caballero & Bravo-Hollis, 1963)

*Allodiscocotyla mexicana* Caballero & Bravo-Hollis, 1963: 168.

*Salinacotyle mexicana* – Lebedev 1984: 23.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Oaxaca.** Salina Cruz: *Caranx hippos* (Caballero & Bravo-Hollis 1963).

**Sinaloa.** Mazatlán: *Hemicaranx leucurus* (Lamothe-Argumedo *et al.* 1997b).

SPECIMENS IN COLLECTIONS. — CNHE (284, 286, 373) (H, P); MNHN-HEL690, MNHN-HEL691.

REMARK

Lebedev (1984) included the genus *Salinacotyle* Lebedev, 1984, in Chauhanidae.

NOTE

Kohn *et al.* (2006) included this species in Allodiscocotylidae.

Family DICLIDOPHORIDAE Cerfontaine, 1895

*Bravocotyle sanblasensis* Lamothe-Argumedo, 1967

*Bravocotyle sanblasensis* Lamothe-Argumedo, 1967c: 49.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nayarit.** San Blás: *Cynoscion xanthulus* (Lamothe-Argumedo 1967c).

SPECIMENS IN COLLECTIONS. — CNHE (180-1) (H, P).

***Campechia synodi* Zhukov & Mamaev, 1985**

*Campechia synodi* Zhukov & Mamaev, 1985: 251.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Bahía de Campeche: *Synodus foetens* (Zhukov & Mamaev, 1985).

SPECIMENS IN COLLECTIONS. — None.

***Choricotyle caulolatilii* (Meserve, 1938)**

*Diclidophora caulolatilii* Meserve, 1938: 43.

*Choricotyle caulolatilii* – Sproston 1946: 488.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California**. Bahía de San Quintín: *Caulolatilus princeps* (Rodríguez-Santiago & Rosales-Casián 2011). **Baja California Sur**. Canal Cerralvo: *Caulolatilus affinis* (Pérez-Urbiola 1995)\*\*; Isla del Carmen: *C. princeps* (Payne 1987a)\*\*.

**Jalisco**. Puerto Vallarta: *Selar crumenophthalmus* (Bravo-Hollis 1953).

SPECIMENS IN COLLECTIONS. — CNHE (30); CPMHN-UABCS; HWML (23535); USNM (079497).

***Choricotyle leonilavazquezae* Lamothe-Argumedo, Aranda-Cruz & Pérez-Ponce de León, 1998 (Fig. 3B)**

*Choricotyle leonilavazquezae* Lamothe-Argumedo, Aranda-Cruz & Pérez-Ponce de León, 1998: 24.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Microlepidotus brevipinnis* (Lamothe-Argumedo *et al.* 1998; Pérez-Ponce de León *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CNHE (2836-38) (H, P); USNM (87057) (P).

***Choricotyle oregonensis* McCauley & Smoker, 1969**

*Choricotyle oregonensis* McCauley & Smoker, 1969: 742.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sonora**. Cuenca de Guaymas: *Antimora microlepis* (Payne 1987a).

SPECIMENS IN COLLECTIONS. — HWML (23536); USNM (079498).

NOTE

Kohn *et al.* (2006) referred the record of *C. oregonensis* to the Mexican state of Baja California, but actually this record was made in Sonora (Payne 1987a).

***Choricotyle sonorensis* Caballero & Bravo-Hollis, 1962**

*Choricotyle sonorensis* Caballero & Bravo-Hollis, 1962a: 70.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sonora**. Bahía de San Carlos: *Microlepidotus inornatus* (Caballero & Bravo-Hollis 1962a).

SPECIMENS IN COLLECTIONS. — CNHE (37)<sup>(H)</sup>.

REMARK

This species was considered *species inquirendae* by Mamaev (1976) and validated by Tantalean *et al.* (1988).

***Cyclocotyloides pinguis* (Linton, 1940)**

*Diclidophora pinguis* Linton, 1940: 13.

*Cyclocotyloides pinguis* – Price 1943: 52.

*Choricotyle pinguis* – Sproston 1946: 491.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sonora**. Cuenca de Guaymas: *Coryphaenoides* sp. (Payne 1987a).

SPECIMENS IN COLLECTIONS. — HWML (23525); USNM (079495).

NOTE

Kohn *et al.* (2006) referred the record of *C. pinguis* to the Mexican state of Baja California, but actually this record was made in Sonora (Payne 1987a).

***Eurysorchis australis* Manter & Walling, 1958<sup>+</sup>**

*Eurysorchis australis* Manter & Walling, 1958: 45.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tamaulipas**. Laguna Madre (Punta Piedra): *Cynoscion nebulosus* (Ramos-Guerra 1998; Iruegas-Buentello 1999).

SPECIMENS IN COLLECTIONS. — None.

***Hargicotyle louisianensis* (Hargis, 1955)\***

*Choricotyle louisianensis* Hargis, 1955: 384.

*Hargicotyle louisianensis* – Mamaev 1972: 159. — Mendoza-Franco *et al.* 2013b.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Playa Las Barrancas (Alvarado): *Menticirrhus americanus*, *Menticirrhus littoralis*, *Menticirrhus saxatilis*, *Cynoscion arenarius* (Montoya-Mendoza *et al.* 2008).

SPECIMENS IN COLLECTIONS. — CNHE (6182; 6190); NHMUK (2007.7.25.20).

REMARK

The specimens collected in *Cynoscion arenarius* were originally identified as *Neoheterobothrium cynoscioni*, but Mendoza-Franco

*et al.* (2013b) re-identified this material as *H. louisianensis* after re-examine it.

***Hargicotyle pacifica* (Bravo-Hollis, 1966)**

*Choricotyle pacifica* Bravo-Hollis, 1966: 107.

*Hargicotyle pacifica* – Mamaev 1972: 158.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de la Paz: *Umbrina xanti* (Bravo-Hollis 1966).

**Jalisco.** Bahía de Chamela: *U. xanti* (Pérez-Ponce de León *et al.* 1999)\*\*.

SPECIMENS IN COLLECTIONS. — CNHE (18, 2873)<sup>(H)</sup>.

REMARK

*Choricotyle pacifica* Bravo-Hollis, 1966 was transferred to *Hargicotyle* Mamaev, 1972 by Mamaev (1972).

***Heterobothrium ecuadori* Meserve, 1938**

*Heterobothrium ecuadori* Meserve, 1938: 44.

*Tagia ecuadori* Sproston 1946: 419. — Euzet & Birgi 1975: 416.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de La Paz: *Spherooides annulatus* (Lamothe-Argumedo *et al.* 1997b)\*\*.

**Jalisco.** Bahía de Chamela: *S. annulatus* (Pérez-Ponce de León *et al.* 1999)\*\*.

**Oaxaca.** Salina Cruz: *S. annulatus* (Lamothe-Argumedo 1967a). **Sinaloa.** Estero Teacapán: *S. annulatus* (Contreras-Arce 2001; Fajer-Ávila *et al.* 2004; Álvarez-Borrego & Fajer-Ávila 2006); Mazatlán: *S. annulatus* (Contreras-Arce 2001; Fajer-Ávila *et al.* 2004; Grano-Maldonado *et al.* 2011).

SPECIMENS IN COLLECTIONS. — CNHE (131, 293, 328, 3063, 4287); HWML (39555).

***Heterobothrium lamothei***

Vidal-Martínez & Mendoza-Franco, 2008\*

*Heterobothrium lamothei* Vidal-Martínez & Mendoza-Franco, 2008: 90.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Yucatán.** Celestún, Chelém, Dzilam de Bravo: *Spherooides testudineus* (Tello-Osalde 1999; Vidal-Martínez & Mendoza-Franco 2008; Pech *et al.* 2009; Sosa-Medina *et al.* 2015); Ría Lagartos: *S. testudineus* (Tello-Osalde 1999; Vidal-Martínez & Mendoza-Franco 2008; Pech *et al.* 2009).

SPECIMENS IN COLLECTIONS. — CHCM (505)<sup>(P)</sup>; CNHE (5922-23)<sup>(H, P)</sup>; IPCAS (M-462)<sup>(P)</sup>; USNM (100508)<sup>(P)</sup>.

REMARK

The record of Tello-Osalde (1999) was made as *Tagia* sp. (= *Heterobothrium* sp.).

***Lampanyctophilus wisneri* Payne, 1986<sup>S</sup>**

*Lampanyctophilus wisneri* Payne, 1986: 157.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Ensenada: *Nannobranchium ritteri* (Payne 1986).

SPECIMENS IN COLLECTIONS. — None.

***Mamaevicotyle villalobosi* Lamothe-Argumedo, 1984**

*Mamaevicotyle villalobosi* Lamothe-Argumedo, 1984: 76.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Bahía de Los Ángeles: *Paralabrax maculatofasciatus* (Gómez del Prado 2012); Bahía Las Ánimas: *Paralabrax auroguttatus* (Gómez del Prado 2012); Bahía de Santa Rosalita: *Paralabrax clathratus*, *Paralabrax nebulifer* (Gómez del Prado 2012); Ensenada: *P. nebulifer* (Gómez del Prado 2012). **Baja California Sur.** Bahía de La Paz: *P. maculatofasciatus* (Gómez del Prado 2012); Boca de los Cardones (Laguna San Ignacio): *P. nebulifer* (Gómez del Prado 2012); El Sargento: *P. auroguttatus*, *Paralabrax loro* (Gómez del Prado 2012); Isla Espíritu Santo (El Candelero): *P. auroguttatus*, *P. maculatofasciatus* (Gómez del Prado 2012); Isla Magdalena: *P. maculatofasciatus*, *P. nebulifer* (Gómez del Prado 2012); Las Barrancas: *P. nebulifer* (Gómez del Prado 2012); Las Tijeras (Bahía Magdalena): *P. maculatofasciatus* (Gómez del Prado 2012). **Jalisco.** Bajo La Hormiga (Bahía de Navidad): *P. loro* (Gómez del Prado 2012).

**Sonora.** Bahía de Guaymas: *P. maculatofasciatus* (Lamothe-Argumedo 1984).

SPECIMENS IN COLLECTIONS. — CNHE (205-6)<sup>(H, P)</sup>; CPMHN-UABCS (232-3, 243).

***Neoheterobothrium cynoscioni* (MacCallum, 1917)<sup>†</sup>**

*Diclidophora cynoscioni* MacCallum, 1917: 48.

*Neoheterobothrium cynoscioni* – Llewellyn 1941: 416-430.

GEOGRAPHIC DISTRIBUTION. — **Tamaulipas.** Laguna Madre (Punta Piedra): *Cynoscion nebulosus* (Ramos-Guerra 1998; Iruegas-Buentello 1999).

**Yucatán.** Celestún: *C. nebulosus* (Mendoza-Franco *et al.* 2013b).

SPECIMENS IN COLLECTIONS. — CNHE (8463).

REMARK

This species was recorded in Yucatán as *Choricotyle cynoscioni* by Mendoza-Franco *et al.* (2013b); the inclusion in *Neoheterobothrium* Price, 1943 is doubtful according to Mamaev (1987), who retained it in *Choricotyle* Van Beneden & Hesse, 1863.

***Neoheterobothrium mcdonaldii* Payne, 1987**

*Neoheterobothrium mcdonaldii* Payne, 1987a: 257.

HOSTS. — Actinopterygii (gills).



GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de La Paz: *Synodus lucioceph* (Payne 1987a); Bahía de Santa Inés: *S. lucioceph* (Payne 1987a), Bahía de Santa Inés: *Synodus evermanni* (Payne 1991)\*\*.

SPECIMENS IN COLLECTIONS. — HWML (23522-3)<sup>(P)</sup>; USNM (079492-3)<sup>(H, P)</sup>.

#### REMARK

In accordance with Piasecki *et al.* (2000), morphological features of *N. mcdonaldi* suggest that it should be removed from the genus *Neoheterobothrium* Price, 1943, from the subfamily Choricotylinae and transferred to one of the remaining subfamilies of the family Diclidophoridae.

#### *Neoheterobothrium syacii*

Mamaev & Zhukov *in* Mamaev, 1987

*Neoheterobothrium syacii* Mamaev & Zhukov *in* Mamaev, 1987: 45.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Golfo de Campeche: *Syacium* sp. (Mamaev 1987).

SPECIMENS IN COLLECTIONS. — LGHBPI (277/83-1)<sup>(H, P)</sup>.

#### NOTE

The site of collection of this monogenean referred by Kohn *et al.* (2006) to Jalisco state (in the Pacific slope of Mexico) actually belongs to Campeche State (located in the Gulf of Mexico, see Mamaev 1987).

#### *Orbocotyle elmernoblei* Payne, 1987

*Orbocotyle elmernoblei* Payne, 1987a: 261.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Isla Espiritu Santo, Bahía de la Paz, Bahía de Santa Inés: *Prionotus stephanophrys* (Payne 1987a).

SPECIMENS IN COLLECTIONS. — HWML (3522-3)<sup>(P)</sup>; USNM (079496)<sup>(H)</sup>.

#### NOTE

The site of collection of this species was referred to Baja California by Kohn *et al.* (2006), but actually this material was collected in Baja California Sur (Payne 1987a).

#### *Pedocotyle minima* Hargis, 1955\*

*Pedocotyle minima* Hargis, 1955: 386.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Playa Las Barrancas (Alvarado): *Bairdiella chrysoura* (Montoya-Mendoza *et al.* 2008).

SPECIMENS IN COLLECTIONS. — CNHE (6189).

#### *Pseudoeurysorchis travassosi*

Caballero & Bravo-Hollis, 1962

*Pseudoeurysorchis travassosi* Caballero & Bravo-Hollis, 1962b: 107.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Microlepidotus brevipinnis* (Pérez-Ponce de León *et al.* 1999)\*\*.

**Sonora.** Bahía de Guaymas: *Microlepidotus inornatus* (Caballero & Bravo-Hollis 1962b).

SPECIMENS IN COLLECTIONS. — CNHE (221-2, 3222)<sup>(H, P)</sup>.

Family DISCOCOTYLIDAE Price, 1936

#### *Pseudobicotylophora atlantica* Amato, 1994

*Pseudobicotylophora atlantica* Amato, 1994: 102.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** *Trachinotus carolinus* (Sánchez-Ramírez & Vidal-Martínez 2002).

**Quintana Roo.** Bahía de Chetumal: *T. carolinus* (Sánchez-Ramírez & Vidal-Martínez 2002), *Trachinotus falcatus* (Bravo-Hollis 1984a).

**Tamaulipas.** Laguna Madre (Punta Piedra): *Peprilus burti*, *T. carolinus* (Iruegas-Buentello 1999).

**Veracruz.** Laguna de Sontecomapan: *T. carolinus* (Bravo-Hollis 1984a); Laguna de Tamiahua: *T. carolinus* (Porraz-Álvarez 2006)\*\*; Playa Jical: *T. carolinus* (Bravo-Hollis 1984a); Playa Las Barrancas (Alvarado): *T. carolinus*, *T. falcatus* (Montoya-Mendoza *et al.* 2008); Tuxpan: *T. carolinus* (Caballero & Bravo-Hollis 1965b).

**Yucatán.** Celestún, Progreso: *T. carolinus* (Sánchez-Ramírez & Vidal-Martínez 2002).

SPECIMENS IN COLLECTIONS. — CHE-UAHEH (00039); CNHE (9-11, 110, 4430, 5892, 6195); NHMUK (2007.7.25.35-36); USNM (99975).

#### REMARK

The identification of the specimens from Tuxpan as *Bicotylophora trachinoti* was confirmed by Euzet & Wahl (1977). However, the specimens identified as *B. trachinoti* by Caballero & Bravo-Hollis (1965b) and Bravo-Hollis (1984a), were re-identified as *P. atlantica* by Amato (1994), and Lamothe-Argumedo & Pulido-Flores (1997). The material from Tamaulipas was not deposited in any collection; herein is tentatively included in *P. atlantica*.

#### NOTE

With exception of the records made by Sánchez-Ramírez & Vidal-Martínez (2002), all other records appears as *Bicotylophora trachinoti* in Kohn *et al.* (2006), but in accordance with Amato (1994), this species has not been recorded so far from natural fish populations.

*Pseudobicotylophora lopezochoterenai*  
Lamothe-Argumedo & Pulido-Flores, 1997  
(Fig. 3D)

*Pseudobicotylophora lopezochoterenai* Lamothe-Argumedo & Pulido-Flores, 1997: 116.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Zihuatanejo: *Trachinotus rhodopus* (Gómez del Prado 1977)\*\*.

**Jalisco**. Bahía de Chamela: *T. rhodopus* (Lamothe-Argumedo & Pulido-Flores 1997; Pérez-Ponce de León *et al.* 1999).

**Nayarit**. San Blás: *Trachinotus kennedyi* (Bravo-Hollis 1985).

**Sinaloa**. Mazatlán: *T. rhodopus* (Bravo-Hollis 1985).

SPECIMENS IN COLLECTIONS. — CNHE (25-6, 55, 3093-4) (H, P).

REMARK

Specimens from Guerrero, Nayarit and Sinaloa were identified as *Bicotylophora trachinoti*; Lamothe-Argumedo & Pulido-Flores (1997) re-examined this material, and transfer them to *P. lopezochoterenai*.

NOTE

Records of this species in Nayarit and Sinaloa parasitising *T. kennedyi* and *T. rhodopus* made by Bravo-Hollis (1985) appear as *B. trachinoti* in Kohn *et al.* (2006).

Family GASTROCOTYLIDAE Price, 1943

*Amphipolycotyle chloroscombrus* Hargis, 1957  
(Fig. 3E)

*Amphipolycotyle chloroscombrus* Hargis, 1957: 2.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Sonora**. Bahía de Guaymas: *Chloroscombrus orqueta* (Lamothe-Argumedo *et al.* 1997b).

**Veracruz**. Playa Las Barracas (Alvarado): *Chloroscombrus chrysurus* (Montoya-Mendoza *et al.* 2008); Playa Jicacal: *C. chrysurus* (Bravo-Hollis 1984a).

SPECIMENS IN COLLECTIONS. — CNHE (12-13, 5890); MNHN-HEL692; NHMUK (2007.7.25.28-29); USNM (99972).

*Engraulicola thrissocles* (Tripathi, 1959)\*

*Paramazocraes thrissocles* Tripathi, 1959: 1-149.

*Engraulicola thrissocles* – Lebedev 1971: 59.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Playa Las Barracas (Alvarado): *Chloroscombrus chrysurus* (Montoya-Mendoza *et al.* 2008).

SPECIMENS IN COLLECTIONS. — CNHE (6197).

REMARK

This species was recorded as *Engraulicola* cf. *thrissocles* in Montoya-Mendoza *et al.* (2008).

Family GOTOCOTYLIDAE Yamaguti, 1963

*Gotocotyla acanthura* (Parona & Perugia, 1896)  
(Fig. 3F)

*Microcotyle acanthurum* Parona & Perugia, 1896: 2.

*Microcotyle acanthophallus* MacCallum & MacCallum, 1913: 234.

*Gotocotyla sawara* Ishii, 1936: 788.

*Gotocotyla acanthura* – Meserve 1938: 50.

*Gotocotyla secunda* Tripathi, 1956: 231-247.

*Lithidiocotyle acanthura* – Bychowsky 1957: 526.

*Gotocotyla acanthophallus* – Yamaguti 1963: 280.

*Gotocotyla jicacali* – *nomen nudum* [undescribed species; material deposited in CNHE in 1990 by Bravo-Hollis].

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Ciudad del Carmen: *Scomberomorus sierra* (Lamothe-Argumedo *et al.* 1997b).

**Sonora**. Bahía de Guaymas: *Microlepidotus inornatus* (present study).

**Veracruz**. Laguna de Sontecomapan: *Scomberomorus maculatus* (Pérez-Ponce de León *et al.* 1996); Playa Jicacal: *Oligoplites saurus*, *S. maculatus* (Lamothe-Argumedo *et al.* 1997b); Puerto de Veracruz: *Scomberomorus cavalla* (Lamothe-Argumedo *et al.* 1997b).

SPECIMENS IN COLLECTIONS. — CNHE (304-6, 319, 322, 330, 2661).

REMARK

With exception of specimens collected in *O. saurus*, all these records were made as *Gotocotyla acanthophallus*, species considered synonym of *G. acanthura* by Hayward & Rohde (1999c). The specimens collected from *O. saurus* were considered as new species (*G. jicacali* Bravo-Hollis, 1990), but its description was not published (see Lamothe-Argumedo *et al.* 1997b), and currently this name is synonym of *G. acanthura* (Hayward & Rohde, 1999c).

NOTE

Kohn *et al.* (2006) listed *Gotocotyla jicacali* as valid species.

Family HETERAXINIDAE Unnithan, 1957

*Cemocotyle borinquenensis* Price, 1962†

*Cemocotyle borinquenensis* Price, 1962b: 411.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Casitas: *Carangoides bartholomaei* (Porraz-Álvarez 2006).

SPECIMENS IN COLLECTIONS. — CHE-UAEH (00040).

*Cemocotyle carangis* (MacCallum, 1913)

*Microcotyle carangis* MacCallum, 1913b: 394.

*Gotocotyla carangis* – Meserve 1938: 55.

*Cemocotyle carangis* – Sproston 1946: 450.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Playa Las Barrancas (Alvarado), Arrecife El Cabezo: *Caranx crysos*, *Caranx hippos* (Montoya-Mendoza *et al.* (2008); Playa Jicacal: *C. crysos* (Bravo-Hollis & Salgado-Maldonado 1982).

SPECIMENS IN COLLECTIONS. — CNHE (65, 5902, 6188); USNM (99966); NHMUK (2007.7.25.15-18).

### *Cemocotyle noveboracensis* Price, 1962

*Cemocotyle noveboracensis* Price, 1962b: 411.

*Axine carangis* MacCallum, 1918: 90.

*Heteraxine carangis* – Yamaguti 1938: 15-74.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Campeche: *Caranx hippos* (Caballero & Bravo-Hollis 1967); Ciudad del Carmen: *C. hippos* (Bravo-Hollis & Salgado-Maldonado 1982).

**Tamaulipas**. Laguna Madre (Punta Piedra): *Caranx latus* (Iruegas-Buentello 1999).

**Veracruz**. Arrecife El Cabezo: *C. hippos* (Montoya-Mendoza *et al.* 2008); El Saladero: *C. hippos* (Porráz-Álvarez 2006); Laguna de Sontecomapan: “Pampanito” (present study); Playa Las Barrancas (Alvarado): *C. crysos*, *C. hippos* (Montoya-Mendoza *et al.* 2008).

SPECIMENS IN COLLECTIONS. — CHE-UAHE (00037); CNHE (64, 80, 2657, 5897-8); NHMUK (2007.7.25.19).

#### REMARK

According to Price (1962b) the specimens of *Axine carangis* and *Heteraxine carangis* represent a new species, named *Cemocotyle noveboracensis*.

### *Cemocotylella elongata* (Meserve, 1938)

*Axine elongata* Meserve, 1938: 61.

*Heteraxine elongata* – Sproston 1946: 459.

*Cemocotylella elongata* – Price 1962b: 412.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Caranx hippos* (Bravo-Hollis 1985).

**Quintana Roo**. Bahía de Chetumal: *Caranx latus* (Bravo-Hollis & Salgado-Maldonado 1982).

**Veracruz**. Arrecife El Cabezo: *C. hippos* (Montoya-Mendoza *et al.* 2008); Playa Las Barrancas (Alvarado): *Oligoplites saurus* (Montoya-Mendoza 2009).

SPECIMENS IN COLLECTIONS. — CNHE (27, 69, 6178).

### *Heteraxinoides zhukovi* Caballero & Bravo-Hollis, 1963

*Heteraxinoides zhukovi* Caballero & Bravo-Hollis, 1963: 193.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Colima**. Manzanillo: *Oligoplites altus* (Caballero & Bravo-Hollis 1963).

SPECIMENS IN COLLECTIONS. — CNHE (287-8) (H, P).

### *Lintaxine cokeri* (Linton, 1940)<sup>‡</sup>

*Heteraxine cokeri* Linton, 1940: 24.

*Lintaxine cokeri* – Sproston 1946: 460.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nuevo León**. Laguna de Salinillas: *Aplodinotus grunniens* (Escobar-González 1997).

SPECIMENS IN COLLECTIONS. — None.

### *Probursata ayalai*

Lamothe-Argumedo & García-Prieto, 1999<sup>§</sup>  
(Fig. 4B)

*Probursata ayalai* Lamothe-Argumedo & García-Prieto, 1999: 214.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sinaloa**. Bahía de Topolobampo: *Oligoplites altus* (Lamothe-Argumedo & García-Prieto 1999).

SPECIMENS IN COLLECTIONS. — CNHE (2659-60) (H, P).

### *Probursata veraecrucis* Bravo-Hollis, 1983

*Probursata veraecrucis* Bravo-Hollis, 1983a: 4.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo**. Bahía de Chetumal: *Oligoplites saurus* (Aguirre-Macedo *et al.* 2007).

**Veracruz**. Playa Las Barrancas (Alvarado): *O. saurus* (Montoya-Mendoza *et al.* 2008); Playa Jicacal: *O. saurus* (Bravo-Hollis 1983a).

SPECIMENS IN COLLECTIONS. — CHCM (411); CNHE (209-11, 5715, 5891, 5894) (H, P); NHMUK (2007.7.25.21-22); USNM (99967).

### *Pseudoallencotyla pricei*

(Kritsky, Noble & Moser, 1978)<sup>§</sup>

*Allencotyla pricei* Kritsky, Noble & Moser, 1978: 45.

*Pseudoallencotyla pricei* – Montero *et al.* 2003: 43.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California**. Punta Santo Tomás: *Embiotoca lateralis*, *Rhacochilus vacca* (Moser & Halderson 1982).

SPECIMENS IN COLLECTIONS. — None.

### *Zeuxapta seriola* (Meserve, 1938)

*Axine seriola* Meserve, 1938: 59.

*Zeuxapta zyxivaginata* Unnithan, 1957: 27-122.



*Zeuxapta seriola* – Price 1962b: 405.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de La Paz: *Seriola lalandi* (Bravo-Hollis 1978a).

**Guerrero.** Zihuatanejo: *Caranx hippos* (Lamothe-Argumedo 1970).

SPECIMENS IN COLLECTIONS. — CNHE (227, 252, 254).

#### NOTE

The record from Baja California Sur was published as “Baja California” by Kohn *et al.* (2006).

### Family HEXABOTHRIIDAE Price, 1942

#### *Dasyonchocotyle dasyatis* (Yamaguti, 1968)\* (Fig. 4C)

*Hexabothrium dasyatis* Yamaguti, 1968: 100.

*Dasyonchocotyle dasyatis* – Boeger & Kritsky 1989: 435.

HOSTS. — Elasmobranchii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sinaloa.** Mazatlán (La Puntilla): *Hypanus longus* (Escorcia-Ignacio *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (9361); HWML (75115).

### Family HEXOSTOMATIDAE Price, 1936

#### *Hexostoma albsmithi* Dollfus, 1962

*Hexostoma albsmithi* Dollfus, 1962: 517.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Undetermined.** Undetermined: *Thunnus orientalis* (unpublished record, HWML)\*\*.

SPECIMENS IN COLLECTIONS. — HWML (31187).

#### REMARK

This monogenean was identified by Edward D. Wagner; the site of collection for the four specimens deposited in the HWML was recorded as “Mexico”.

#### *Neohexostoma euthynni* (Meserve, 1938) (Fig. 4D)

*Hexostoma euthynni* Meserve, 1938: 47. — Milleman 1956: 316. — Payne 1991: 98.

*Hexostoma macracanthum* Fujii, 1944: 153.

*Neohexostoma euthynni* – Price 1961a: 6.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Isla Espíritu Santo: *Euthynnus lineatus* (Payne 1991)\*\*; Localidad entre Punta Abreojos y San Juanico: *E. lineatus* (Milleman 1956).

**Jalisco.** Bahía de Chamela: *E. lineatus* (Castillo-Sánchez *et al.* 1997; Pérez-Ponce de León *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CNHE (1448).

#### *Neohexostoma* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Ensenada: *Sarda chilensis* (unpublished record, HWML)\*\*.

SPECIMENS IN COLLECTIONS. — HWML (31188).

### Family MACROVALVITREMATIDAE Yamaguti, 1963

#### *Macrovalvitrema micropogoni* (Pearse, 1949)†

*Tagia micropogoni* Pearse, 1949: 28.

*Macrovalvitrema micropogoni* – Yamaguti 1963: 208.

*Macrovalvitrema micropogoni* – Hernández-Vale *et al.* 2016: 116.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tamaulipas.** Laguna Madre (Punta Piedra): *Micropogonias undulatus* (Iruegas-Buentello 1999).

SPECIMENS IN COLLECTIONS. — None.

#### *Macrovalvitrema sinaloense* Caballero & Bravo-Hollis, 1955 (Fig. 4F)

*Macrovalvitrema sinaloense* Caballero & Bravo-Hollis, 1955: 89.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de La Paz: *Lutjanus argentiventris*, *Ophioscion scierus* (Bravo-Hollis 1981b), *Xenistius californiensis* (Bravo-Hollis 1985).

**Sinaloa.** Mazatlán: *Micropogonias ectenes* (Caballero & Bravo-Hollis 1955).

**Sonora.** Bahía de Guaymas: *Micropogonias megalops*, *Umbrina roncadore* (Bravo-Hollis 1981b).

**Tamaulipas.** Laguna Madre (Punta Piedra): *Paralichthys lethostigma* (Zambrano-Coronado 2001)\*\*.

SPECIMENS IN COLLECTIONS. — CNHE (28, 99-103, 109, 314-15) (H, P).

#### REMARK

According to Hargis (1959), *M. sinaloense* is a valid species but “almost congeneric” with *Pterinotrematoides mexicanum*. The independence of both genera was established by Suriano (1975). Yamaguti (1963) established the family Macrovalvitrematidae to contain the species of both genera, but this proposal was rejected by Dillon & Hargis (1965), and Boeger & Kritsky (1993). Recently, the amended diagnosis of the genus *Macrovalvitrema* Caballero & Bravo-Hollis, 1955 was published by Hernández-Vale *et al.* (2016), who recognized their independence of *Pterinotrematoides* Caballero & Bravo-Hollis, 1955.

#### NOTE

The following records of *M. sinaloense* listed by Kohn *et al.* (2006) do not agree with those presented in the original references: *L. argentiventris* and *O. scierus* from Sonora and Baja California, and *M. megalops*, *U. roncadorensis* and *X. californiensis* from Baja California.

#### *Macrovalvitrema* sp.<sup>†</sup>

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Laguna de Alvarado: *Leiostomus xanthurus* (Méndez-Guevara 1995).

SPECIMENS IN COLLECTIONS. — None.

#### *Pseudohargisia cortesi* Payne, 1987<sup>§</sup>

*Pseudohargisia cortesi* Payne, 1987b: 171.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Bahía de San Felipe: *Micropogonias megalops* (Payne 1987b).

SPECIMENS IN COLLECTIONS. — HWML (23641)<sup>(P)</sup>; USNM (079499)<sup>(H)</sup>.

#### *Pseudotagia* sp.<sup>§</sup>

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Umbrina xanti* (Pérez-Ponce de León *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CNHE (2877).

#### *Pterinotrematoides mexicanum* Caballero & Bravo-Hollis, 1955

*Pterinotrematoides mexicanum* Caballero & Bravo-Hollis, 1955: 97.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de La Paz: *Lutjanus argentiventris*, *Ophioscion scierus* (Bravo-Hollis 1981b). **Sinaloa.** Mazatlán: *Micropogonias ectenes* (Caballero & Bravo-Hollis 1955).

**Sonora.** Bahía de Guaymas: *Micropogonias megalops*, *Umbrina roncadorensis* (Bravo-Hollis 1981b).

**Tamaulipas.** Laguna Madre (Punta Piedra): *Paralichthys lethostigma* (Zambrano-Coronado 2001)\*\*.

SPECIMENS IN COLLECTIONS. — CNHE (97-8, 104-8) (H, P).

#### REMARK

According to Hargis (1959), *P. mexicanum* is a valid species but “almost congeneric” with *M. sinaloense*. The independence of both genera was established by Suriano (1975). Recently, the amended diagnosis of the genus *Macrovalvitrema* Cabal-

lero & Bravo-Hollis, 1955 was published by Hernández-Vale *et al.* (2016), who recognized their independence of *Pterinotrematoides* Caballero & Bravo-Hollis, 1955.

#### NOTE

The following records of *P. mexicanum* listed by Kohn *et al.* (2006) do not agree with the information presented in the original references: *L. argentiventris* and *O. scierus* from Baja California and Sonora; *M. megalops* and *U. roncadorensis* from Baja California. Kohn *et al.* (2006) included this species in Pterinotrematidae.

#### Family MAZOCRAEIDAE Price, 1936

#### *Grubea cochlear* Diesing, 1858

*Grubea cochlear* Diesing, 1858: 285.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Ensenada: *Sarda chilensis* (Wagner 1975).

SPECIMENS IN COLLECTIONS. — HWML (31198).

#### REMARK

The specimens were determined as *Grubea* sp. by Wagner (1975), and re-identified as *Grubea cochlear* by Mamaev (1982) and Rohde (1986).

#### NOTE

This record appears as *Grubea* sp. in the checklist of Kohn *et al.* (2006).

#### *Kuhnia scombercolias* Nasir & Fuentes Zambrano, 1983<sup>†</sup>

*Kuhnia scombercolias* Nasir & Fuentes Zambrano, 1983: 335-380.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Isla del Carmen: *Scomber japonicus* (Payne 1991).

SPECIMENS IN COLLECTIONS. — None.

#### *Kuhnia scombri* (Kuhn, 1829)<sup>†</sup>

*Octosoma scombri* Kuhn, 1829: 361.

*Octocotyle truncatum* Diesing, 1850: 422.

*Octoplectanum truncatum* – Diesing 1858: 383.

*Octocotyle major* Goto, 1894: 203.

*Kuhnia scombri* – Sproston 1945: 176-190.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Isla del Carmen: *Scomber japonicus* (Payne 1991)\*\*.

SPECIMENS IN COLLECTIONS. — None.

*Kuhnina* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Ensenada: *Sarda chilensis* (unpublished record, HWML)\*\*.

**Jalisco.** Bahía de Chamela: *Opisthonema libertate* (Pérez-Ponce de León *et al.* 1999, 2000a).

SPECIMENS IN COLLECTIONS. — CNHE (2935); HWML (31189).

*Mazocraeoides bychowskyi* Caballero & Caballero-Rodríguez, 1976  
(Fig. 5A)

*Mazocraeoides bychowskyi* Caballero & Caballero-Rodríguez, 1976: 41.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tamaulipas.** Ciudad Madero: *Dorosoma cepedianum* (Caballero & Caballero-Rodríguez 1976).

SPECIMENS IN COLLECTIONS. — CNHE (120)<sup>(H)</sup>.

*Mazocraeoides olentangiensis* Sroufe, 1959<sup>†</sup>

*Mazocraeoides olentangiensis* Sroufe, 1959: 643.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nuevo León.** Centro Acuícola Salinillas: *Dorosoma cepedianum* (De Witt-Sepúlveda 1992); Laguna de Salinillas: *D. cepedianum* (Calzada-Rodríguez 1993).

**Tamaulipas.** Presa Falcón: *Dorosoma anale* (Pérez-Ponce de León *et al.* 2013).

SPECIMENS IN COLLECTIONS. — CNHE (3393).

REMARK

According to Kohn & Santos (1988), *M. olentangiensis* is conspecific with *M. georgei* Price, 1936.

*Mazocraeoides* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Chiapas.** Río Grijalva (Presa Nezahualcoyotl): *Dorosoma anale* (Pineda-López *et al.* 1985b)\*\*.

**Tabasco.** Laguna El Rosario: *Astyanax fasciatus*, *Brycon guatemalensis* (Fucugauchi *et al.* 1988); Pantanos de Centla: *D. anale* (López-Jiménez 2001).

SPECIMENS IN COLLECTIONS. — None.

*Pseudanthocotyloides banghami* Price, 1959\*

*Pseudanthocotyloides banghami* Price, 1959: 9.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tamaulipas.** Presa Falcón: *Dorosoma anale* (Pérez-Ponce de León *et al.* 2013).

SPECIMENS IN COLLECTIONS. — CNHE (7428).

*Pseudanthocotyloides dossae*  
Caballero & Bravo-Hollis, 1965

*Pseudanthocotyloides dossae* Caballero & Bravo-Hollis, 1965a: 542.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Tuxpan: *Anchoa hepsetus* (Caballero & Bravo-Hollis 1965a).

SPECIMENS IN COLLECTIONS. — CNHE (96)<sup>(P)</sup>.

REMARK

The holotype was deposited in the personal collection of Eduardo Caballero y Caballero.

*Pseudomazocraeoides megalocotyle* (Price, 1959)

*Mazocraeoides megalocotyle* Price, 1959: 9.

*Pseudomazocraeoides megalocotyle* – Price 1961b: 145.

HOSTS. — Actinopterygii (gills).

Geographic distribution. — **Nuevo León.** Centro Acuícola Salinillas: *Dorosoma cepedianum* (De Witt-Sepúlveda & Galavíz-Silva 1992); Laguna Salinillas: *D. cepedianum* (Calzada-Rodríguez 1993)\*\*.

SPECIMENS IN COLLECTIONS. — None.

Family MICROCOTYLIDAE Taschenberg, 1879

*Anakohnia* sp.<sup>‡</sup>

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Laguna de Alvarado: *Centropomus parallelus* (Cancela-Mora 1995).

SPECIMENS IN COLLECTIONS. — CNHE (9968).

*Anchoromicrocotyle guaymensis* Bravo-Hollis, 1981

*Anchoromicrocotyle guaymensis* Bravo-Hollis, 1981d: 307.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sonora.** Bahía de Guaymas: *Atrac-toscion nobilis* (Bravo-Hollis 1981d).

SPECIMENS IN COLLECTIONS. — CNHE (191-2)<sup>(H, P)</sup>.



*Cynoscionicola heteracantha* (Manter, 1938)<sup>‡</sup>

*Microcotyle heteracantha* Manter, 1938: 293.

*Cynoscionicola heteracantha* – Price 1962b: 413.

*Manterella heteracantha* – Unnithan 1971: 389.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tamaulipas**. Laguna Madre (Punta Piedra): *Cynoscion arenarius*, *Cynoscion nebulosus* (Ramos-Guerra 1998; Iruegas-Buentello 1999), *Micropogonias undulatus* (Iruegas-Buentello 1999).

**Yucatán**. Celestún: *C. nebulosus* (Mendoza-Franco *et al.* 2013b).

SPECIMENS IN COLLECTIONS. — CNHE (8462).

*Cynoscionicola pseudoheteracantha* (Hargis, 1956)

*Microcotyle pseudoheteracantha* Hargis, 1956b: 440.

*Cynoscionicola pseudoheteracantha* – Price 1962b: 413.

*Manterella pseudoheteracantha* – Unnithan 1971: 389.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz**. Playa Jicacal: *Cynoscion nothus* (Bravo-Hollis 1984a); Playa Las Barrancas (Alvarado): *Cynoscion arenarius*, *Umbrina coroides* (Montoya-Mendoza *et al.* 2008).

SPECIMENS IN COLLECTIONS. — CNHE (15, 6193-4); NHMUK (2007.25.23).

*Cynoscionicola sciaenae* Tantalean, 1974

*Cynoscionicola sciaenae* Tantalean, 1974: 120-127.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Oaxaca**. Salina Cruz: *Umbrina xanti* (Bravo-Hollis 1981c).

**Sonora**. Bahía de Guaymas: *U. xanti* (Bravo-Hollis 1981c).

SPECIMENS IN COLLECTIONS. — CNHE (277-8).

*Cynoscionicola srivastavai*

Bravo-Hollis & Caballero-Rodríguez, 1970

*Cynoscionicola srivastavai* Bravo-Hollis & Caballero-Rodríguez, 1970: 245.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Bahía de La Paz: *Umbrina xanti* (Bravo-Hollis & Caballero-Rodríguez 1970). **Jalisco**. Bahía de Chamela: *Anisotremus dovii* (Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999), *U. xanti* (Bravo-Hollis 1981c; Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999). **Nayarit**. San Blas: *Bairdiella icistia* (Bravo-Hollis 1981c). **Oaxaca**. Salina Cruz: *Umbrina roncador* (Lamothe-Argumedo *et al.* 1997b).

**Sinaloa**. Mazatlán: *Isopisthus remifer* (Bravo-Hollis 1985).

**Sonora**. Bahía de Guaymas: *B. icistia* (Bravo-Hollis 1981c), *Cynoscion xanthulus* (Bravo-Hollis 1981c; Bravo-Hollis 1985); Puerto Peñasco: *I. remifer* (Bravo-Hollis 1985).

SPECIMENS IN COLLECTIONS. — CNHE (4-8, 279-82, 375, 2881, 2940) (H, P); MNHN-HEL702, MNHN-HEL703.

NOTE

The following records of *C. srivastavai* listed by Kohn *et al.* (2006) could not be confirmed in the original references: *B. icistia* from Jalisco; *C. xanthulus* from Jalisco, Nayarit, and Sinaloa, and *U. xanti* from Baja California, Sonora, and Nayarit.

*Diplostamenides spinicirrus* (MacCallum, 1918)

*Microcotyle spinicirrus* MacCallum, 1918: 94.

*Diplostamenides spinicirrus* – Unnithan 1971: 378.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Coahuila**. Presa Don Martín: *Aplodinotus grunniens* (Bravo-Hollis & Jiménez-Guzmán 1982). **Nuevo León**. Laguna Salinillas: *A. grunniens* (Escobar-González 1997)\*\*.

**Tamaulipas**. Presa Falcón: *A. grunniens* (Pérez-Ponce de León *et al.* 2013).

SPECIMENS IN COLLECTIONS. — CNHE (169, 7429).

REMARK

Excepting the material from Tamaulipas, all other material was recorded as *Microcotyle spinicirrus*, but this species was relocated in *Diplostamenides* Unnithan, 1971 by Unnithan (1971).

NOTE

The record of Bravo-Hollis & Jiménez-Guzmán (1982) appears as *Microcotyle spinicirrus* in Kohn *et al.* (2006)

*Jaliscia caballeroi* (Bravo-Hollis, 1960)

*Microcotyle caballeroi* Bravo-Hollis, 1960: 87.

*Jaliscia caballeroi* – Mamaev & Egorova 1977: 104.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Isla del Carmen: *Caulolatilus princeps* (Payne 1991)\*\*.

**Jalisco**. Puerto Vallarta: *Selar crumenophthalmus* (Bravo-Hollis 1960). **Sinaloa**. Mazatlán: *Caulolatilus affinis* (Lamothe-Argumedo *et al.* 1997b).

**Sonora**. Bahía de Guaymas: *C. princeps* (Bravo-Hollis 1981c).

SPECIMENS IN COLLECTIONS. — CNHE (147-8, 179, 370) (H, P); MNHN-HEL697, MNHN-HEL698.

*Jaliscia* sp.<sup>‡</sup>

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Canal Cerralvo: *Caulolatilus affinis* (Pérez-Urbiola 1993, 1995).

SPECIMENS IN COLLECTIONS. — CPMHN-UABCS; USNM (084761).

#### REMARK

These specimens were deposited by Pérez-Urbiola (1993) as holotype and paratypes of “*Jaliscia caulolati*”, an invalid specific name because not published.

### *Magniexcipula lamothei* Bravo-Hollis, 1980 (Fig. 5B)

*Magniexcipula lamothei* Bravo-Hollis, 1980a: 31.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de La Paz: *Calamus brachysomus* (Bravo-Hollis 1980a); Isla Espíritu Santo: *C. brachysomus* (Payne 1991).

**Jalisco.** Bahía de Chamela: *Anisotremus dovii* (Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999).

**Sinaloa.** Mazatlán: *C. brachysomus* (Bravo-Hollis 1985).

**Sonora.** Bahía de Guaymas: *C. brachysomus* (Bravo-Hollis 1980b).

SPECIMENS IN COLLECTIONS. — CNHE (202, 219, 220, 2668, 2810) (H, P).

#### NOTE

The record of this species in Baja California, referred by Kohn *et al.* (2006), actually corresponds to Baja California Sur (Bravo-Hollis 1980a).

### *Metamicrocotyla chamelense* Bravo-Hollis, 1983

*Metamicrocotyla chamelense* Bravo-Hollis, 1983b: 19.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Mugil cephalus* (Bravo-Hollis, 1983b); *Mugil curema* (Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CNHE (16-17, 2811) (H, P).

### *Metamicrocotyla macracantha* (Alexander, 1954)

*Microcotyle macracantha* Alexander, 1954: 280.

*Metamicrocotyla macracantha* – Koratha 1955: 262.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía Coyote (Bahía Concepción): *Mugil cephalus* (Alexander 1954); Bahía de La Paz: *M. cephalus* (Bravo-Hollis 1966).

**Jalisco.** Bahía de Chamela: *M. cephalus* (Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999).

**Sinaloa.** Estero Teacapán, Estero Urias: *Mugil curema* (Fajer-Ávila *et al.* 2006); Bahía de Ohuira, Bahía de Topolobampo: *M. cephalus* (Juárez-Arroyo & Salgado-Maldonado 1989).

**Sonora.** Bahía de Guaymas: *M. cephalus* (Bravo-Hollis 1981c).

**Veracruz.** Laguna de Tamiahua: *M. curema*, *M. cephalus* (Méndez-Villagrán 1993)\*\*.

SPECIMENS IN COLLECTIONS. — CNHE (1, 19, 22-3, 342, 2812); USNM (49036-7).

#### NOTE

The record of this species in Baja California, referred by Kohn *et al.* (2006), actually corresponds to Baja California Sur (see Alexander 1954; Bravo-Hollis 1966).

### *Metamicrocotyla mugilis* Yamaguti, 1968

*Metamicrocotyla mugilis* Yamaguti, 1968: 141.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Sonora.** Puerto Peñasco: *Mugil cephalus* (Bravo-Hollis 1985).

SPECIMENS IN COLLECTIONS. — CNHE (29).

### *Metamicrocotyla pacifica* Bravo-Hollis, 1981

*Metamicrocotyla pacifica* Bravo-Hollis, 1981c: 16.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Mugil curema* (Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999); Estero Pérula: *M. curema* (Bravo-Hollis 1981c).

SPECIMENS IN COLLECTIONS. — CNHE (1-2, 2813) (H, P).

### *Metamicrocotyla* sp. †

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Laguna la Mancha: *Mugil curema* (Nieto-Pérez 1998).

SPECIMENS IN COLLECTIONS. — None.

### *Microcotyle archosargi* MacCallum, 1913

*Microcotyle archosargi* MacCallum, 1913b: 398.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tamaulipas.** Laguna Madre (Punta Piedra): *Archosargus probatocephalus* (Iruegas-Buentello 1999).

**Veracruz.** El Conchal: *A. probatocephalus* (Montoya-Mendoza *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (9696).

### *Microcotyle neozealanicus* Dillon & Hargis, 1965

*Microcotyle neozealanicus* Dillon & Hargis, 1965: 261. — Mamaev 1986: 200.

*Paramicrocotyle neozealanicus* – Caballero & Bravo-Hollis 1972: 157.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo.** Isla Mujeres: *Gerres cinereus* (Lamothé-Argumedo *et al.* 1997b).

SPECIMENS IN COLLECTIONS. — CNHE (335).

*Microcotyle sebastis* Goto, 1894

*Microcotyle sebastis* Goto, 1894: 187.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Bahía de San Quintín: *Sebastes miniatus* (Rodríguez-Santiago *et al.* 2014); Ensenada: *Sebastes rufus* (Payne 1991)\*\*; *Sebastes* sp. (unpublished record, HWML)\*\*; Localidad entre Isla Coronado y Bahía de San Quintín: *Sebastes chlorostictus*, *Sebastes constellatus*, *Sebastes elongatus* (Alvarado-Villamar & Ruiz-Campos 1992).

SPECIMENS IN COLLECTIONS. — HWML (31190).

REMARK

According to Ayadi *et al.* (2017) “the correct specific assignment of species of *Microcotyle* from scorpaeniform fishes needs a detailed morphological and molecular study of representatives from various locations and hosts”.

*Microcotyle* sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Locality between Isla Coronado y Bahía de San Quintín: *Sebastes helvomaculatus*, *Sebastes rosaceus*, *Sebastes umbrosus* (Alvarado-Villamar & Ruiz-Campos 1992).

**Tabasco.** Río Usumacinta (Tenosique): *Ictalurus meridionalis* (López-Jiménez 2001); Tenosique (Boca del Cerro): *I. meridionalis* (Del Río-Rodríguez 1994)\*\*.

**Tamaulipas.** Río Soto La Marina: *Astyanax mexicanus* (Pérez-Ponce de León *et al.* 2013).

SPECIMENS IN COLLECTIONS. — CNHE (7427).

*Microcotyle tampicensis*  
(Caballero & Bravo-Hollis, 1972)

*Paramicrocotyle tampicensis* Caballero & Bravo-Hollis, 1972: 155.

*Microcotyle tampicensis* – Mamaev 1986: 200.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Ciudad del Carmen: *Archosargus rhomboidalis* (Lamothé-Argumedo *et al.* 1997b).

**Tamaulipas.** Ciudad Madero: *Diapterus auratus* (Caballero & Bravo-Hollis 1972).

SPECIMENS IN COLLECTIONS. — CNHE (186, 323)<sup>(H)</sup>.

MICROCOTYLIDAE gen. sp.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Río Ayuquila (El Camichín): *Agonostomus monticola* (Salgado-Maldonado *et al.* 2004a).

**Veracruz.** Río Frio: *A. monticola* (Salgado-Maldonado *et al.* 2005a).

**Yucatán.** Laguna de Celestún: *Cynoscion nebulosus*, *Lagodon rhomboides* (Sosa-Medina *et al.* 2015).

SPECIMENS IN COLLECTIONS. — CNHE (4795).

*Microcotyloides impudicus*  
Caballero, Bravo-Hollis & Grocott, 1955

*Microcotyloides impudicus* Caballero, Bravo-Hollis & Grocott, 1955: 127.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Polydactylus approximans* (Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999).

**Nayarit.** San Blas: *P. approximans*, *Polydactylus octonemus* (Bravo-Hollis 1981a).

**Oaxaca.** Salina Cruz: *P. approximans* (Bravo-Hollis 1981a).

**Sinaloa.** Mazatlán: *Chanos chanos*, *P. approximans* (Bravo-Hollis 1981a).

SPECIMENS IN COLLECTIONS. — CNHE (44-6, 40-50, 2814).

NOTE

The following records of *M. impudicus* listed by Kohn *et al.* (2006) could not be confirmed in the original references: *C. chanos* from Nayarit and Oaxaca and *P. octonemus* from Sinaloa and Oaxaca.

*Microcotyloides incisa* (Linton, 1910)

*Microcotyle incisa* Linton, 1910: 81.

*Microcotyloides incisa* – Fujii 1944: 155.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de La Paz: *Lutjanus argentiventris* (Bravo-Hollis 1981a; Perkins *et al.* 2009); Cabo San Lucas: *Cirrhitus rivulatus* (Bravo-Hollis 1978a).

**Guerrero.** Acapulco: *Lutjanus guttatus* (Bravo-Hollis 1981a); Laguna de Tres Palos: *L. argentiventris* (Violante-González *et al.* 2007); Zihuatanejo: *Lutjanus inermis* (Gómez del Prado 1977)\*\*.

**Jalisco.** Bahía de Chamela: *L. argentiventris*, *L. guttatus* (Pérez-Ponce de León *et al.* 1999)\*\*; *Lutjanus jordani*, *Umbrina xanti* (Mendoza-Garfias & Pérez-Ponce de León 1998).

**Nayarit.** Bahía de Banderas: *Lutjanus colorado* (Bravo-Hollis 1978a), *L. guttatus* (Quispe-Maica 2005\*\*; García-Vargas 2008); Bahía de Matanchén: *L. guttatus* (Quispe-Maica 2005)\*\*.

**Sinaloa.** Mazatlán: *L. guttatus* (García-Vargas 2008).

**Quintana Roo.** Isla Mujeres: *Lutjanus cyanopterus* (Bravo-Hollis & Salgado-Maldonado 1982).

**Veracruz.** Arrecife Isla de Enmedio, Arrecife Anegada de Afuera: *Ocyurus chrysurus* (Montoya-Mendoza *et al.* 2014b).

SPECIMENS IN COLLECTIONS. — CNHE (51-3, 60-3, 2817-9, 2878, 9148-9).

NOTE

The presence of this species in *C. rivulatus* from Nayarit as well as in *L. argentiventris* from Baja California and in *L. guttatus*



also from Baja California referred by Kohn *et al.* (2006) is not including in the original references (Bravo-Hollis (1978a) for the first two records and Bravo-Hollis (1981a) for the last one). Finally, Baja California is not part of the distribution range of this species as pointed out these authors (see Bravo-Hollis [1978a, 1981a]).

*Microcotylodes* sp.\*

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tabasco.** Pantanos de Centla: *Centropomus parallelus*, *Centropomus undecimalis* (García-Magaña & López-Jiménez 2008).

SPECIMENS IN COLLECTIONS. — None.

*Paramicrocotyle atriobursata*  
Caballero & Bravo-Hollis, 1972

*Paramicrocotyle atriobursata* Caballero & Bravo-Hollis, 1972: 153.

*Microcotyle atriobursata* – Mamaev 1986: 200.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Tamaulipas.** Ciudad Madero: *Diapterus auratus* (Caballero & Bravo-Hollis 1972).

SPECIMENS IN COLLECTIONS. — CNHE (187-8) (H, P).

REMARK

The genus *Paramicrocotyle* was synonymized with *Microcotyle* by Mamaev (1986). Currently is considered *taxon inquirendum* (WoRMS 2017).

NOTE

This species appears as *Microcotyle atriobursata* in the checklist of Kohn *et al.* (2006).

*Polymicrocotyle manteri* Lamothe-Argumedo, 1967

*Polymicrocotyle manteri* Lamothe-Argumedo, 1967b: 943.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California.** Isla Rasa: “Cabrilla” (Bravo-Hollis 1981a).

**Jalisco.** Bahía de Chamela: *Lutjanus guttatus*, *Lutjanus jordani* (Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999), *Opisthonema libertate* (Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999, 2000). **Nayarit.** Bahía de Banderas: *Lutjanus colorado* (Bravo-Hollis 1978a). **Oaxaca.** Puerto Angelillo: *L. colorado* (Lamothe-Argumedo 1967b). **Veracruz.** Arrecife Santiaguillo: *Lutjanus campechanus* (Montoya-Mendoza *et al.* 2014a).

SPECIMENS IN COLLECTIONS. — CNHE (48, 59, 234-5, 2825-6, 2934, 8495) (H, P).

*Polynemicola californica* Bravo-Hollis, 1985

*Polynemicola californica* Bravo-Hollis, 1985: 283.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Bahía de La Paz: *Xenistius californiensis* (Bravo-Hollis 1985).

SPECIMENS IN COLLECTIONS. — CNHE (200-1) (H, P).

*Pseudobivagina aniversaria* (Bravo-Hollis, 1979)

*Neobivagina aniversaria* Bravo-Hollis, 1979a: 10.

*Pseudobivagina aniversaria* – Mamaev 1986: 202.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco.** Bahía de Chamela: *Kyphosus elegans* (León-Règagnon *et al.* 1997; Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999), *Lutjanus guttatus*, *Prionurus punctatus*, *Sectator ocyurus* (Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999); **Estero Chamela:** *Kyphosus* sp. (Bravo-Hollis 1979a); Punta Pérula (Bahía de Chamela): *S. ocyurus* (Bravo-Hollis 1981a).

SPECIMENS IN COLLECTIONS. — CNHE (173, 203-4, 2732, 2822-24, 2827) (H, P).

*Rhinecotyle deloyai* Bravo-Hollis, 1980

*Rhinecotyle deloyai* Bravo-Hollis, 1980b: 42.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo.** Isla Mujeres: *Sphyrna barracuda* (Bravo-Hollis 1980b); Puerto Morelos: *S. barracuda* (present study).

SPECIMENS IN COLLECTIONS. — CNHE (275-6, 331, 2656) (H, P).

NOTE

This species was included in Rhinecotylidae by Kohn *et al.* (2006).

*Solostamenides pseudomugilis* (Hargis, 1956)

*Microcotyle pseudomugilis* Hargis, 1956: 443.

*Solostamenides pseudomugilis* – Unnithan 1971: 388.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero.** Zihuatanejo: *Mugil cephalus* (Lamothe-Argumedo *et al.* 1997b).

**Jalisco.** Bahía de Chamela: *Mugil curema* (Mendoza-Garfias & Pérez-Ponce de León 1998; Pérez-Ponce de León *et al.* 1999).

SPECIMENS IN COLLECTIONS. — CNHE (336, 3193).

NOTE

Both records were presented by Kohn *et al.* (2006) as different species, i.e. the records from Guerrero were listed as *Microcotyle pseudomugilis* and those from Jalisco as *Solostamenides pseudomugilis*.

*menides pseudomugilis*, but the first binomial is synonym of *S. pseudomugilis* according to Unnithan (1971).

#### Family OCTOMACRIDAE Yamaguti, 1963

##### *Octomacrum mexicanum* Lamothe-Argumedo, 1980 (Fig. 5D)

*Octomacrum mexicanum* Lamothe-Argumedo, 1980: 51.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Michoacán.** Lago de Pátzcuaro: *Algansea lacustris* (Lamothe-Argumedo 1980; Mendoza-Garfias *et al.* 1996; Pérez-Ponce de León *et al.* 2000b; Bravo-Arteaga 2008).

SPECIMENS IN COLLECTIONS. — CNHE (137-8, 1329, 5852) (H, P).

#### NOTE

This species was included in Discocotylidae by Kohn *et al.* (2006).

#### Family PARAMONAXINIDAE Mamaev, 1990

##### *Paramonaxine yamagutii* Bravo-Hollis, 1978 (Fig. 5E)

*Paramonaxine yamagutii* Bravo-Hollis, 1978a: 14.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California:** Isla Rasa: *Sphyræna ensis* (Bravo-Hollis 1978b). **Baja California Sur.** Cabo San Lucas: *S. ensis* (Bravo-Hollis 1978a)\*\*. **Sonora.** Bahía de Guaymas: *Sphyræna argentea* (Bravo-Hollis 1981a).

SPECIMENS IN COLLECTIONS. — CNHE (207-8, 174-5) (H, P).

#### REMARK

Mamaev (1990) established the family Paramonaxinidae based on this species.

#### NOTE

Kohn *et al.* (2006) included this species in Heteraxinidae.

#### Family POLYSTOMATIDAE Gamble, 1896

##### *Neodiplorchis scaphiopi* (Rodgers, 1941)

*Diplorchis scaphiopi* Rodgers, 1941: 153.

*Neodiplorchis scaphiopi* – Yamaguti 1963: 294.

HOSTS. — Anura larvae (urinary bladder); Anura adult (urinary bladder).

GEOGRAPHIC DISTRIBUTION. — **Estado de México.** Capulhuac: *Spea hammondi* (Anura larvae, Lamothe-Argumedo 1973a) (Anura adult, Lamothe-Argumedo 1973b).

SPECIMENS IN COLLECTIONS. — Anura larvae, CNHE (3052), Anura adult, CNHE (136).

##### *Neopolystoma domitilae* (Caballero, 1938)

*Polystoma domitilae* Caballero, 1938: 107.

*Neopolystoma domitilae* – Price 1939a: 90.

HOSTS. — Testudinea; Urinary bladder.

GEOGRAPHIC DISTRIBUTION. — **Veracruz.** Laguna de Alvarado: *Terrapene ornata* (Caballero 1938).

**Tabasco.** Río Teapa: *Chelydra rossignoni* (Lamothe-Argumedo 1972), *Trachemys scripta* (Thatcher 1963)\*\*.

SPECIMENS IN COLLECTIONS. — CNHE (113-14, 121-22) (H, P).

##### *Neopolystoma orbiculare* (Stunkard, 1916)

*Polystoma orbiculare* Stunkard, 1916: 23.

*Polystoma oblongum* Leidy, 1888: 127.

*Polystoma troosti* MacCallum, 1919: 107.

*Polystoma inerme* MacCallum, 1919: 109.

*Polystoma elegans* MacCallum, 1919: 112.

*Polystoma spinulosum* MacCallum, 1919: 113.

*Polystoma aspidonectis* MacCallum, 1919: 117.

*Polystoma floridanum* Stunkard, 1924: 100.

*Neopolystoma orbiculare* – Price 1939a: 87.

HOSTS. — Testudinea; Urinary bladder.

GEOGRAPHIC DISTRIBUTION. — **Oaxaca.** Tuxtepec: *Kinosternon leucostomum* (Zerecero 1948).

**Tamaulipas.** Río Tamesi: *Trachemys scripta* (Lamothe-Argumedo 1972).

SPECIMENS IN COLLECTIONS. — CNHE (123, 135).

##### *Polystoma naevius* Caballero & Zerecero, 1941

*Polystoma naevius* Caballero & Zerecero, 1941: 616.

HOSTS. — Anura; Urinary bladder.

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo.** Juan Sarabia, Chetumal III: *Smilisca baudinii*, *Trachycephalus typhonius* (Terán-Juárez 2011).

**Veracruz.** Estación de Biología Los Tuxtlas: *S. baudinii* (Lamothe-Argumedo 1976), *Smilisca cyanosticta* (Goldberg *et al.* 2002); **Potrero Viejo:** *S. baudinii* (Caballero & Zerecero 1941).

SPECIMENS IN COLLECTIONS. — CNHE (73, 2593) (H, P); USNM (36803) (P).

#### NOTE

The following records of *P. naevius* listed by Kohn *et al.* (2006) are not contained in the original references: *Rhinella marina*, *Eleutherodactylus rhodopsis*, *Smilisca microcephala*, *Leptodactylus*

*melanonotus*, and *Lithobates vaillanti*, from Veracruz; *Kinosternon hirtipes* from Ciudad de México, Durango, Michoacán, and Nayarit.

*Polystomoidella oblongum* (Wright, 1879)

*Polystoma oblongum* Wright, 1879: 12.

*Polystomoidella oblongum* – Price 1939a: 86.

HOSTS. — Testudinea; Urinary bladder.

GEOGRAPHIC DISTRIBUTION. — **Ciudad de México.** Lago de Xochimilco: *Kinosternon hirtipes* (Lamothe-Argumedo 1972).

**Estado de México.** Undetermined: *K. hirtipes* (Lamothe-Argumedo 1972).

**Guerrero.** Cacahuamilpa: *Kinosternon integrum* (Caballero 1940); Chilpancingo: *Kinosternon leucostomum* (present study).

**Michoacán.** Lago de Cuitzeo, Lago de Zacapu, Lago de Zirahuén Manantiales de Cointzio: *K. hirtipes* (Pérez-Ponce de León *et al.* 2001); Lago de Pátzcuaro: *K. hirtipes* (Parra-Rojas 1983; Pérez-Ponce de León *et al.* 2001).

**Morelos.** Casasano: *K. integrum* (Caballero & Herrera-Rosales 1947).

**Nayarit.** Río Grande (Villa- Hidalgo): *K. hirtipes* (Parra-Rojas 1983)\*\*.

**Veracruz.** Laguna de Alvarado: *K. leucostomum* (Herrera-Rosales 1951)\*\*.

**Zacatecas.** Laguna El Mortero: *K. hirtipes* (Lamothe-Argumedo *et al.* 1997b).

SPECIMENS IN COLLECTIONS. — CNHE (124-25, 228, 230, 262, 297, 303, 3204-07, 3810, 9248).

NOTE

The record of *P. oblonga* in Mexico City (see Lamothe-Argumedo *et al.* 1997b) was not included in the checklist of Kohn *et al.* (2006). In addition, this species has not been recorded in Hidalgo nor *K. hirtipes* has been registered as host in Morelos as these authors referred.

*Polystomoidella whartoni* Price, 1939

*Polystomoidella whartoni* Price 1939a: 87.

HOSTS. — Testudinea; Urinary bladder.

GEOGRAPHIC DISTRIBUTION. — **Guanajuato.** Laguna de Yuriria: *Kinosternon hirtipes* (Lamothe-Argumedo 1972); Río Lerdo: *K. hirtipes* (Caballero 1940).

**Hidalgo.** Tasquillo: *K. hirtipes* (Caballero 1938)\*\*.

**Morelos.** Casasano: *Kinosternon integrum* (Caballero & Herrera-Rosales 1947).

SPECIMENS IN COLLECTIONS. — CNHE (112, 115, 231, 302).

REMARK

Specimens of Caballero (1938) were determined as *Polystoma* (*Polystomoides*) *oblongum*, and re-determined by Price (1939a) as *Polystomoidella whartoni*.

NOTE

The host species referred by Kohn *et al.* (2006) for this monogenean in Morelos state (*K. hirtipes*) actually correspond to *K. integrum* (see Caballero & Herrera-Rosales 1947).

*Polystomoides coronatum* (Leidy, 1888)<sup>§</sup>

*Polystomum coronatum* Leidy, 1888: 127.

*Polystoma megacotyle* Stunkard, 1916: 23.

*Polystoma microcotyle* Stunkard, 1916: 23.

*Polystoma opacum* Stunkard, 1916: 23.

*Polystoma albicollis* MacCallum, 1919: 110.

*Polystoma digitatum* MacCallum, 1919: 115.

*Polystomoides coronatum* – Ozaki 1935: 193-225.

HOSTS. — Testudinea (pharynx).

GEOGRAPHIC DISTRIBUTION. — **Nuevo León.** Laguna de Salinillas: *Trachemys scripta* (Alvarado-Ramírez 1993)\*\*; Río Pesquería, Río San Juan, Río Santa Catarina: *Apalone spinifera* (Iruegas-Buentello 1979; Iruegas-Buentello *et al.* 1991).

**Tabasco.** Río Teapa: *T. scripta* (Thatcher 1963).

SPECIMENS IN COLLECTIONS. — CNHE (274).

*Polystomoides* sp.<sup>§</sup>

HOSTS. — Testudinea; Intestine (?).

GEOGRAPHIC DISTRIBUTION. — **Coahuila.** Cuatro Ciénagas: *Terapene coahuila* (Guajardo-Martínez 1984).

SPECIMENS IN COLLECTIONS. — None.

*Pseudodiplorchis americanus* (Rodgers & Kuntz, 1940)

*Diplorchis americanus* Rodgers & Kuntz, 1940: 37.

*Pseudodiplorchis americanus* – Yamaguti 1963: 291.

HOSTS. — Anura; Urinary bladder.

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** La Paz: *Scaphiopus couchii* (Lamothe-Argumedo 1985).

**Nuevo León.** Río Salinas (El Carmen): *S. couchii* (León-Règnon *et al.* 2005)\*\*.

SPECIMENS IN COLLECTIONS. — CNHE (1334, 4335).

*Riojatrema bravoae* Lamothe-Argumedo, 1963  
(Fig. 5F)

*Riojatrema bravoae* Lamothe-Argumedo, 1963b: 74.

HOSTS. — Anura; Urinary bladder.

GEOGRAPHIC DISTRIBUTION. — **Morelos.** Cerro del Tepozteco (Tepoztlán): *Eleutherodactylus nitidus*, “*Bufo simus*” (Lamothe-Argumedo 1963b).



SPECIMENS IN COLLECTIONS. — CNHE (182-83) (H, P).

REMARK

*Bufo simus* (currently *Chiromantis simus* [Annandale]) is distributed in Northeastern India (Assam, Mizoram, and West Bengal) as well as in intervening Bangladesh (Chittagong and Moulvibazar District); then, the record as host of *R. bravoae* in Mexico is doubtful.

Family PROTOMICROCOTYLIDAE Johnston & Tiegs, 1922

*Neomicrocotyle carangis* Yamaguti, 1968

*Neomicrocotyle carangis* Yamaguti, 1968: 148.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Caranx* sp. (Lamothe-Argumedo *et al.* 1997b).

SPECIMENS IN COLLECTIONS. — CNHE (337).

*Neomicrocotyle pacifica* (Meserve, 1938)

*Protomicrocotyle pacifica* Meserve, 1938: 64.

*Neomicrocotyle pacifica* — Ramalingam 1960: 369.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Bahía de La Paz: *Caranx crysos* (Lamothe-Argumedo *et al.* 1997b).

**Jalisco**. Bahía de Chamela: *Caranx caballus*, *Caranx hippos* (Pérez-Ponce de León *et al.* 1999)\*\*.

**Oaxaca**. Puerto Ángel: *C. caballus* (Lamothe-Argumedo *et al.* 1997b), *C. hippos* (Bravo-Hollis & Salgado-Maldonado 1985).

SPECIMENS IN COLLECTIONS. — CNHE (71, 371-2, 367, 3116); MNHN-HEL701.

NOTE

According to Kohn *et al.* (2006), the distribution range of this species includes Baja California state, which could not be confirmed in the original references; in the same way, *C. caballus*, *C. hippos*, and *C. crysos* has not been recorded as hosts of this monogenean species in this state.

*Protomicrocotyle manteri* Bravo-Hollis, 1966  
(Fig. 6A)

*Protomicrocotyle manteri* Bravo-Hollis, 1966: 114.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Bahía de La Paz: *Caranx crysos*, *Caranx hippos* (Lamothe-Argumedo *et al.* 1997b), *Trachinotus paitensis* (Bravo-Hollis 1966).

**Jalisco**. Bahía de Chamela: *Caranx caballus*, *C. hippos*, *Caranx* sp. (Pérez-Ponce de León *et al.* 1999)\*\*.

**Nayarit**. San Blás: *C. hippos* (Lamothe-Argumedo *et al.* 1997b)\*\*.

**Oaxaca**. Puerto Escondido: *C. hippos* (Lamothe-Argumedo 1970), *Caranx* sp. (present study).

**Quintana Roo**. Bahía de Chetumal: *Caranx latus* (Bravo-Hollis 1989); Isla Cozumel: *Caranx* sp. (Bravo-Hollis 1989).

**Sinaloa**. Bahía de Topolobampo, Mazatlán: *C. hippos* (Lamothe-Argumedo *et al.* 1997b).

**Veracruz**. Playa Jicacal: *C. hippos* (Bravo-Hollis 1989).

SPECIMENS IN COLLECTIONS. — CNHE (20-1, 134, 160, 167-8, 343-53, 3115) (H, P); MNHN-HEL699, MNHN-HEL700.

NOTE

The following records of *P. manteri* listed by Kohn *et al.* (2006) are not contained in the original references: *C. hippos* from Quintana Roo; *Caranx* sp., and *C. latus* from Veracruz and *Opisthonema libertate* from Jalisco.

*Protomicrocotyle mirabilis* (MacCallum, 1918)

*Acanthodiscus mirabilis* MacCallum, 1918: 93.

*Protomicrocotyle mirabilis* — Johnston & Tiegs 1922: 123.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche**. Campeche: *Caranx hippos* (Caballero & Bravo-Hollis 1967).

**Quintana Roo**. Bahía de Chetumal: *Caranx latus* (Bravo-Hollis 1989); Isla Cozumel: *Caranx* sp. (Bravo-Hollis 1989); Isla Mujeres: *Caranx crysos* (Bravo-Hollis 1989).

**Tamaulipas**. Laguna Madre (Punta Piedra): *C. latus* (Iruegas-Buentello 1999)\*\*.

**Veracruz**. Arrecife El Cabezo, Playa Las Barrancas (Alvarado): *C. crysos*, *C. hippos* (Montoya-Mendoza *et al.* 2008); El Saladero: *C. hippos* (Porraz-Álvarez 2006); Playa Jicacal: *Trachinotus carolinus* (Bravo-Hollis 1989); Laguna de Sontecomapan: *C. hippos* (Bravo-Hollis 1989); Tuxpan: *C. latus* (Caballero & Bravo-Hollis 1965b).

SPECIMENS IN COLLECTIONS. — CHE-UAHEH (00036); CNHE (81, 111, 161-6, 5895, 5899); NHMUK (2007.7.25.30-34); USNM (99973-74).

NOTE

The record of *P. mirabilis* in *C. hippos* from Quintana Roo listed by Kohn *et al.* (2006) is not included in the original references.

*Protomicrocotyle nayaritensis*  
Bravo-Hollis, 1979

*Protomicrocotyle nayaritensis* Bravo-Hollis, 1979b: 189.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Nayarit**. Isla Isabela: *Caranx hippos* (Bravo-Hollis 1979b); San Blás: *C. hippos* (Lamothe-Argumedo *et al.* 1997b).

SPECIMENS IN COLLECTIONS. — CNHE (158-9, 351-2) (H, P).

## Family PSEUDODICLIDOPHORIDAE Yamaguti, 1965

*Allopseudodicliphora opelu* Yamaguti, 1965  
(Fig. 6B)*Allopseudodicliphora opelu* Yamaguti, 1965: 71.

HOSTS. — Actinopterygii (fins).

GEOGRAPHIC DISTRIBUTION. — **Oaxaca**. Puerto Ángel: *Decapterus muroadsi* (Lamothe-Argumedo *et al.* 1997b).

SPECIMENS IN COLLECTIONS. — CNHE (377).

## NOTE

This species was included in the family Dicliphoridae by Kohn *et al.* (2006).*Pseudodicliphora decapteri* Yamaguti, 1965*Pseudodicliphora decapteri* Yamaguti, 1965: 69.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Oaxaca**. Puerto Ángel: *Decapterus muroadsi* (Lamothe-Argumedo *et al.* 1997b).

SPECIMENS IN COLLECTIONS. — CNHE (378); MNHN-HEL693, MNHN-HEL694.

## NOTE

This species was included in the family Dicliphoridae by Kohn *et al.* (2006).Family PTERINOTREMATIDAE  
Caballero & Bravo-Hollis, 1954*Pterinotrema hoffmannae*  
Pérez-Ponce de León & Mendoza-Garfias, 1996  
(Fig. 6C)*Pterinotrema hoffmannae* Pérez-Ponce de León & Mendoza-Garfias, 1996: 174.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Jalisco**. Bahía de Chamela: *Albula nemoptera* (Pérez-Ponce de León & Mendoza-Garfias 1996; Pérez-Ponce de León *et al.* 1997, 1999).

SPECIMENS IN COLLECTIONS. — CNHE (2753-4) (H, P).

*Pterinotrema macrostomum*  
Caballero, Bravo-Hollis & Grocott, 1954*Pterinotrema macrostomum* Caballero, Bravo-Hollis & Grocott, 1954: 84.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Quintana Roo**. Bahía de Chetumal: *Albula vulpes* (Bravo-Hollis & Salgado-Maldonado 1982).

SPECIMENS IN COLLECTIONS. — CNHE (265).

## Family PYRAGRAPHORIDAE Yamaguti, 1963

*Pyragraphorus hollisae* Euzet & Ktari, 1970§  
(Fig. 6D)*Pyragraphorus hollisae* Euzet & Ktari, 1970: 61.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Guerrero**. Zihuatanejo: *Trachinotus rhodopus* (Gómez del Prado 1977)\*\*.**Jalisco**. Bahía de Chamela: *T. rhodopus* (Pérez-Ponce de León *et al.* 1999)\*\*.

SPECIMENS IN COLLECTIONS. — CNHE (268, 3101).

*Pyragraphorus pyragraphorus*  
(MacCallum & MacCallum, 1913)*Microcotyle pyragraphorus* MacCallum & MacCallum, 1913: 225.*Pyragraphorus pyragraphorus* – Sproston 1946: 449.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur**. Cabo San Lucas: *Trachinotus rhodopus* (Bravo-Hollis 1978a).**Campeche**. Campeche: *Trachinotus carolinus* (Sánchez-Ramírez & Vidal-Martínez 2002).**Quintana Roo**. Bahía de Chetumal: *T. carolinus* (Sánchez-Ramírez & Vidal-Martínez 2002), *Trachinotus falcatus* (Bravo-Hollis 1984a).**Veracruz**. Playa Las Barrancas (Alvarado): *T. carolinus*, *Trachinotus goodei* (Montoya-Mendoza *et al.* 2008).**Yucatán**. Celestún, Progreso: *T. carolinus* (Sánchez-Ramírez & Vidal-Martínez 2002).

SPECIMENS IN COLLECTIONS. — CNHE (250, 253, 4428-9, 6207, 6656-7).

## Family THORACOCOTYLIDAE Price, 1936

*Mexicotyle mexicana* (Meserve, 1938)*Pseudaxine mexicana* Meserve, 1938: 63.*Mexicotyle mexicana* – Lebedev 1984: 20.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Colima**. Manzanillo: *Scomberomorus sierra* (Lamothe-Argumedo *et al.* 1997b)\*\*.**Guerrero**. Zihuatanejo: *S. sierra* (Gómez del Prado 1977)\*\*.**Jalisco**. Bahía de Chamela: *S. sierra* (Pérez-Ponce de León *et al.* 1999)\*\*.**Nayarit**. San Blas: *S. sierra* (Lamothe-Argumedo *et al.* 1997b).**Oaxaca**. Tangola Tangola: *S. sierra* (Meserve 1938).**Quintana Roo**. Bahía de Chetumal: *Scomberomorus maculatus* (Aguirre-Macedo *et al.* 2007).**Sonora**. Bahía Cholla: *Scomberomorus concolor* (Rohde & Hayward 1999); Bahía de Guaymas: *S. sierra* (Lamothe-Argumedo *et al.* 1997b).

**Veracruz.** Laguna de Sontecomapan: *Scomberomorus brasiliensis* (Bravo-Hollis 1989); Puerto de Veracruz: *Scomberomorus cavalla* (Bravo-Hollis 1953).

SPECIMENS IN COLLECTIONS. — CNHE (242, 267, 301, 364-6, 3189, 5716); QM (G214591); USNM (009167, 216696)<sup>(H)</sup>.

#### REMARK

The type host was identified as *Scomberomorus maculatus* but this species is not distributed in the Pacific Ocean (see Rohde & Hayward 1999).

#### NOTE

The following records of *M. mexicana* listed by Kohn *et al.* (2006) are not contained in their original references: *S. brasiliensis*, and *S. cavalla* from Sonora, Guerrero, and Nayarit; *S. concolor* from Veracruz, Guerrero, and Nayarit; *S. maculatus* from Oaxaca, and Veracruz; *Scomberomorus regalis* from Veracruz, Sonora, Guerrero, and Nayarit; and *S. sierra* from Veracruz.

### *Neothoracocotyle acanthocybii* (Meserve, 1938)<sup>†</sup>

*Gotocotyla acanthocybii* Meserve, 1938: 53.

*Neothoracocotyle coryphaenae* Yamaguti, 1938: 203-256.

*Neothoracocotyle acanthocybii* – Hargis 1956a: 40.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Baja California Sur.** Cabo San Lucas: *Acanthocybium solandri* (Payne 1991).

SPECIMENS IN COLLECTIONS. — None.

### *Scomberocotyle scomberomori* (Koratha, 1955) (Fig. 6E)

*Heteraxine scomberomori* Koratha, 1955: 266.

*Scomberocotyle scomberomori* – Hargis 1956a: 31.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Ciudad del Carmen: *Scomberomorus* sp. (Bravo-Hollis 1984a).

**Jalisco.** Bahía de Chamela: *Scomberomorus sierra* (Pérez-Ponce de León *et al.* 1999)\*\*.

**Sonora.** Bahía Cholla: *Scomberomorus concolor*, *S. sierra* (Hayward & Rohde 1999b).

**Veracruz.** Laguna de Sontecomapan: *Scomberomorus maculatus* (Bravo-Hollis 1984a).

SPECIMENS IN COLLECTIONS. — CNHE (14, 251, 3064); USNM (216696, 348306).

### *Thoracocotyle crocea* MacCallum, 1913

*Thoracocotyle crocea* MacCallum, 1913: 335.

HOSTS. — Actinopterygii (gills).

GEOGRAPHIC DISTRIBUTION. — **Campeche.** Ciudad del Carmen: *Scomberomorus maculatus* (Lamothe-Argumedo *et al.* 1997b)\*\*.

**Colima.** Manzanillo: *Scomberomorus sierra* (Lamothe-Argumedo *et al.* 1997b)\*\*.

**Guerrero.** Zihuatanejo: *S. sierra* (Gómez del Prado 1977)\*\*.

**Jalisco.** Bahía de Chamela: *S. sierra* (Lamothe-Argumedo *et al.* 1997b; Pérez-Ponce de León *et al.* 1999); Puerto Vallarta: *S. sierra* (Bravo-Hollis 1953).

**Nayarit.** San Blas: *S. sierra* (Bravo-Hollis & Lamothe-Argumedo 1976).

**Oaxaca.** Tangola Tangola: *S. sierra* (Meserve 1938).

**Sonora.** Bahía Cholla: *Scomberomorus concolor* (Hayward & Rohde 1999a)\*\*; Bahía de Guaymas: *S. sierra* (present study); Off Sonora: *S. sierra* (Hayward & Rohde 1999a).

**Veracruz.** Playa Jicacal, Laguna de Sontecomapan: *S. maculatus* (Lamothe-Argumedo *et al.* 1997a).

SPECIMENS IN COLLECTIONS. — CNHE (56, 239-40, 307-310, 354-6, 2666-7, 3055-6); HWML (39556); MNHN-HEL684, MNHN-HEL685; QM (G214798, G214600); USNM (233681, 348306, 009171).

#### REMARK

Specimens from Guerrero and Oaxaca were determined as *Thoracocotyle paradoxica*, a recognised synonym of *T. crocea* (see Hargis 1956b). Material from Campeche was referred by Lamothe-Argumedo *et al.* (1997b) as *Paradawesia bychowskyi*, which was synonymized by Hayward & Rohde (1999a) with *T. crocea*. Finally, some specimens from Playa Jicacal and Laguna de Sontecomapan, Veracruz were deposited in the CNHE as types of *Paradawesia mexicana*, a species *nomina nuda* (see Lamothe-Argumedo *et al.* 1997b). The species was re-identified by Hayward & Rohde (1999a) as *T. crocea*.

#### NOTE

The following records of *T. crocea* listed by Kohn *et al.* (2006) are not included in the original references: *S. concolor* and *S. sierra* from Veracruz; *S. maculatus* from Oaxaca, Sonora, Nayarit, Jalisco, and Guerrero. Finally, the record of Bravo-Hollis (1953), assigned to Nayarit by Kohn *et al.* (2006), actually corresponds to Jalisco.

#### DISCUSSION

The checklist presented herein includes 313 nominal species of monogeneans, as well as 54 additional taxa that were identified into different hierarchical levels. The list includes 102 taxa parasitic of freshwater fishes, 213 of marine (including 20 parasites of elasmobranchs) and 42 of brackish water fishes, four in anurans and six in Testudinea. Clearly the vast majority of species of monogeneans in Mexico have been described as parasites of marine fishes. This result may seem to contradict the recent analysis by Poulin (2016) who tested the hypothesis that speciation rates are higher in freshwater parasites than in marine ones due to the fact that the isolation and heterogeneity of freshwater habitats should promote a higher speciation rate. Poulin (2016) found some support for the hypothesis with the number of species per helminth genus being slightly higher in the parasite faunas





FIG. 6. — Micrographs of some monogeneans representatives of the 29 families recorded in vertebrates of Mexico. **A**, Protomicrocotylidae: *Protomicrocotyle manteri* Bravo-Hollis, 1966 (CNHE 20); **B**, Pseudodoclidophoridae: *Allopseudodoclidophora opelu* Yamaguti, 1965 (CNHE 377); **C**, Pterinotrematidae: *Pterinotremata hoffmannae* Pérez-Ponce de León & Mendoza-Garfías, 1996 (CNHE 2753); **D**, Pyragraphoridae: *Pyragraphorus hollisae* Euzet & Ktari, 1970 (CNHE 3101); **E**, Thoracocotylidae: *Scomberocotyle scomberomori* (Koratha, 1955) (CNHE 14). Scale bars: 200  $\mu$ m.

of freshwater fishes. Our results show that even though a larger number of freshwater localities have been studied for monogeneans (342 freshwater *vs* 116 marine and 37 brackish water), the specific richness in this group of parasites is less in freshwater environments. For instance, up to now 114 taxa have been recorded in freshwaters, meanwhile 251 were recorded in marine habitats. However, as discovered by Poulin (2016), the number of species per genus is higher in freshwater monogeneans. For instance, the genus *Gyrodactylus* in Mexico contains at least 22 species while the most species-rich genera of marine monogenean, *Haliotrematoides*, possess only 12. Fifteen of the 22 species of *Gyrodactylus* (71%) were described in the last decade, and only four of the 12 species of *Haliotrematoides* (36%) were also recently described. This shows that the number of freshwater species of monogeneans may be underestimated and it may be premature to conclude that more species are found in marine environments than in fresh waters.

Overall, the inventory of the monogenean parasites of aquatic vertebrates from Mexico is far from complete. The diversity of vertebrates in Mexico accounts for more than 5000 species (see Sarukhán *et al.* 2009); considering only those species occurring in aquatic habitats where monogeneans are primarily found, only 10.25% of the elasmobranch species, 13.13% of the actinopterygians, 1.94% of the anurans, and 0.99% of the reptiles distributed in Mexico have been reported as hosts of this group of helminths. Pérez-Ponce de León & Choudhury (2010) discussed that the inventory of the freshwater fish helminth fauna in Mexico was nearing completion, excepting for monogeneans. These authors showed a species accumulation curve demonstrating that the slope for this helminth group is far from reaching the asymptote. The study of monogenean parasites of freshwater fish in Mexico, particularly dactylogyrids and gyrodactylids, was neglected until recent years but more parasitologists have been interested in describing the monogenean fauna and new species have been described in the last decade (e.g., Mendoza-Palmero *et al.* 2009; Rubio-Godoy *et al.* 2010; Kritsky *et al.* 2013; García-Vásquez *et al.* 2011, 2015b; Mendoza-Franco *et al.* 2013a; Razo-Mendivil *et al.* 2016).

In general terms, no matter a small number of aquatic vertebrates have been studied for monogeneans, a relatively large amount of information has been accumulated, allowing us to describe some patterns of biodiversity of this parasite fauna under the premise that host-parasite checklists are fundamental tools in wildlife parasitology (see Poulin *et al.* 2016). Still, most of the available checklists cannot be used as reliable sources of data for comparative analyses, as demonstrated by Poulin *et al.* (2016). These authors discussed that when checklists are published, they usually provide an exhaustive list of all host-parasite associations known from a particular geographic region, but that does not mean that they provide a complete list of all existing host-parasite associations. Assuming that the discovery of host-associations in a certain area follows the pattern of the discovery of new species, i.e. that the cumulative number of species eventually shows signs of slowing down to reach the asymptote, Poulin *et al.* (2016) analyzed the

checklist of the helminth parasites of freshwater fishes from Mexico; their analysis suggested that well over half, possibly more than 90% of host-parasite associations have already been documented, only considering the host species and the river systems included in the checklist, and not all the other ones that have not been studied yet. With no doubt, this pattern applies to the checklist of the monogenean fauna. This means that new species of monogeneans will continue to be found when other hosts and other areas are examined.

The first attempt to synthesize the information about monogeneans in Mexican hosts was conducted by Lamothe-Argumedo & Jaimes-Cruz (1982). These authors focused exclusively on species of monogenean parasites of freshwater fishes, anurans and reptiles distributed between southern United States and northern South America; for this reason, these authors listed only 10 species for the Mexican hosts. The second list, published by Flores-Crespo & Flores-Crespo (2003) analyzed the species richness of monogeneans associated to freshwater and marine fish species. However, the list presented by these authors only contained 32 species but the number of species of monogeneans known up to 2001, just for fishes was at least 205 (see Pérez-Ponce de León & García-Prieto 2001). In addition, the list presented by Flores-Crespo & Flores-Crespo (2003) included several species that are actually not distributed in Mexico, e.g., *Syncoelicotyloides zaniophori* Rubec, Blend & Dronen, 1995 (a species only recorded in De Soto Canyon Area, in the northeastern part of the Gulf of Mexico, according to Rubec *et al.* 1995); *Syncoelicotyloides macruri* Mamaev & Brashovjan, 1989 (recorded in Walvis ridge in the southeastern Atlantic according to Mamaev & Brashovjan 1989), *Sprostioniella multitestis* Bychowsky & Nagibina, 1967 (a species collected from the South China Sea, see Bychowsky & Nagibina 1967); and *Sprostioniella micrancyra* Cezar, Luque & Amato, 1999 (collected from Rio de Janeiro, Brazil, see Cezar *et al.* 1999).

The most recent attempt to estimate the monogenean diversity was carried out by Kohn *et al.* (2006) in a checklist of monogeneans parasites of freshwater and marine fishes, anurans and reptiles from Mexico, Central America and Caribbean; in that paper, only for Mexico authors listed 196 taxa. These numbers contrast with the 313 nominal species and 54 taxa of monogeneans recorded up to the year 2017 (113 species registered in the last decade).

Notwithstanding, the checklist presented herein revealed the need to have a complete and accurate list of species (and supraspecific taxa when monogeneans could not be identified up to species level), as the starting point to search for broad general biodiversity patterns. A detailed analysis of the list presented by Kohn *et al.* (2006), showed several inconsistencies with the record of monogeneans in Mexican vertebrates. The first discrepancy detected between our data and those presented by Kohn *et al.* (2006) is in terms of species richness: These authors did not considered at least 59 taxa registered in Mexico until 2005; this is partially explained because these authors did not include 26 taxa recorded in thesis (which were not considered formal publications by

them) and seven more deposited in scientific collections. However, in the list by Kohn *et al.* (2006) 22 taxa reported in 16 published papers were not included; actually, seven of them were described as new species, i.e. *Nudaciraxine cabosanlucensis* Payne, 1990, *Listrocephalos kearni* Bullard, Payne & Baswell, 2004, *Listrocephalos whittingtoni* Bullard, Payne & Baswell, 2004, *Pseudohargisia cortesi* Payne, 1987, *Probursata ayalai* Lamothe-Argumedo & García-Prieto, 1999, *Calicotyle californiensis* Bullard & Overstreet, 2000, and *Calicotyle urobati* Bullard & Overstreet, 2000. In addition, in the checklist by Kohn *et al.* (2006) some species were duplicated, e. g., *Cichlidogyrus longicornis* and *Scutogyrus longicornis*; *Microcotyle pseudomugilis* and *Solostamenides pseudomugilis*; taxonomic information for some taxa distributed in Mexico was not updated (e.g., *Bicotylophora trachinoti*, *Tetraonchus* sp., *Parahaliotrema pacificus*, *Neobenedenia anadenea*, *Enterogyrus niloticus*, and *Gotocotyla jicacali*); some *lapsus* in the specific names led to the authors of this contribution to name non-existent species (e.g., *Loimos parawilsoni*, and *Parahaliotrema-toides chaetodipteri*), and finally, species not actually distributed in Mexico were also considered in their checklist, e.g., *Calicotyle stossichi*, *Calicotyle asterii*, *Entobdella squamula*, and *Benedenia convoluta*. In total, 68 notes related to the changes made on the list published by Kohn *et al.* (2006) in reference to Mexican records are presented in our study.

Considering all the aforementioned arguments, we decided to present an updated and complete checklist of an important and diverse group of helminths that commonly infect aquatic vertebrates in Mexico, particularly marine and freshwater fishes. We acknowledge that the inventory of the monogenean fauna is not complete, rendering the checklist incomplete, but we are certain that the information herein presented represents the current state of knowledge of the species richness of the monogenean parasites of aquatic vertebrates in Mexico, after almost 80 years of taxonomic research on this group of Platyhelminthes. The data are very useful to identify future research areas, group of hosts, and probably the geographic areas that need to be targeted to achieve a complete inventory, although it is not useful for comparative analyses (see Poulin *et al.* 2016). It is clear that the inventory is still a work in progress, and the traditional approach mostly followed is solely based on morphology, although that situation is changing (see García-Vásquez *et al.* 2015b; Razo-Mendivil *et al.* 2016; Mendoza-Palmero *et al.* 2017). We are certain that the inclusion of DNA markers in the near future will be fundamental to establish a more robust and accurate inventory of this parasitic group since species limits will be established more accurately, and potential cryptic species will be recognized in what we believe is only one species, based on morphological evidence. The species accumulation curve of this group in Mexican hosts is shown in Figure 7. Data are presented by periods of five years starting in 1938, when the first species of monogeneans were described by Caballero (1938) and Meserve (1938). Clearly, the slope of the curve is still ascending and no evidence that the curve is reaching the asymptote is observed. This means that more

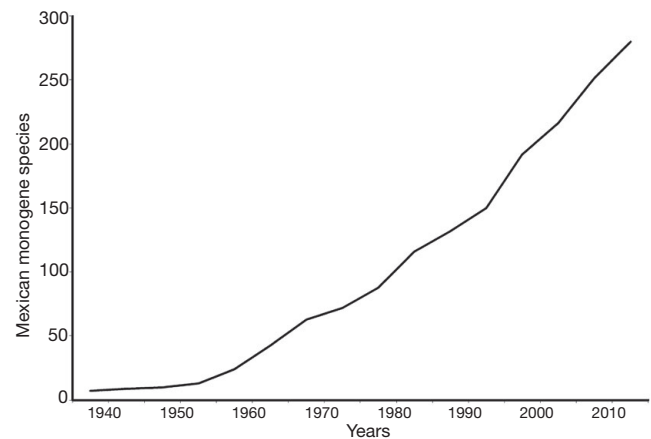


Fig. 7. — Cumulative curve of Mexican monogene species described for decades to date.

thorough sampling is required and that new species (and new records) will be established in the near future if the same tendency is maintained.

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#### REFERENCES

- AGUILAR-AGUILAR R., SALGADO-MALDONADO G., MORENO-NAVARRETE R. G. & CABAÑAS-CARRANZA G. 2004. — Helminths parasites of fishes dulceacuícolas, in LUNA I., MORRONE J. J. & ESPINOSA D. (eds), *Biodiversidad de la Sierra Madre Oriental*. Las Prensas de Ciencias, Mexico City: 261-270.
- AGUILAR-AGUILAR R., ROSAS-VALDEZ R., MARTÍNEZ-AQUINO A., PÉREZ-RODRÍGUEZ R., DOMÍNGUEZ-DOMÍNGUEZ O. & PÉREZ-PONCE DE LEÓN G. 2010. — Helminth fauna of two cyprinid fish (*Camptostoma ornatum* and *Codoma ornata*) from the upper Piaxtla River, Northwestern Mexico. *Helminthologia* 47: 251-256. <https://doi.org/10.2478/s11687-010-039-2>
- AGUILAR-AGUILAR R., MARTÍNEZ-AQUINO A., ESPINOSA-PÉREZ H. & PÉREZ-PONCE DE LEÓN G. 2014. — Helminth parasites of freshwater fishes from Cuatro Ciénegas, Coahuila, in the Chihuahuan Desert of Mexico: inventory and biogeographical implications. *Integrative Zoology* 9: 328-339. <https://doi.org/10.1111/1749-4877.12038>



- AGUILAR-AGUILAR R., LAGUNAS-CALVO O. & PÉREZ-PONCE DE LEÓN G. 2015. — Helminth Communities of *Cyprinodon atrovirus* in the Natural Protected Area of Cuatro Ciénegas, Coahuila, Northern Mexico. *Western North American Naturalist* 75: 226-231. <https://doi.org/10.3398/064.075.0211>
- AGUILAR-CASTELLANOS E. 2002. — *Inventario de helmintos parásitos de peces de la cuenca del Río Pánuco y parte del Lerma-Santiago*. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 53 p.
- AGUILAR-SÁNCHEZ M. A. 1998. — *Comparación de la fauna helmintológica de dos especies de la familia Ariidae: Ariopsis felis (Linnaeus, 1766) y Cathorops aquadulce (Meek, 1904) en la Laguna de La Mancha, Mpio. De Actopan, Ver. México*. B. S. Thesis, Facultad de Biología, Universidad Veracruzana. Jalapa, Veracruz, Mexico, 57 p.
- AGUIRRE-FEY D., BENITEZ-VILLA G. E., PÉREZ-PONCE DE LEÓN G. & RUBIO-GODOY M. 2015. — Population dynamics of *Cichlidogyrus* spp. and *Scutogyrus* sp. (Monogenea) infecting farmed tilapia in Veracruz, México. *Aquaculture* 443: 11-15. <https://doi.org/10.1016/j.aquaculture.2015.03.004>
- AGUIRRE-MACEDO L., VIDAL-MARTÍNEZ V. M., GONZÁLEZ-SOLIS D. & CABALLERO P. I. 2007. — Helminth communities of four commercially important fish species from Chetumal Bay, Mexico. *Journal of Helminthology* 81: 19-31. <https://doi.org/10.1017/S0022149X0721209X>
- AIKEN H. M., BOTTE N. J., MLADINEO I., MONTERO F. E., NOWAK B. F. & HAYWARD C. J. 2007. — A Molecular evidence for cosmopolitan distribution of plathyhelminth parasites of tunas (*Thunnus* sp.). *Fish and Fisheries* 8: 167-180. <https://doi.org/10.1111/j.1467-2679.2007.00248.x>
- ALEMÁN-GARCÍA B. J. 2009. — *Helmintos parásitos del Lago de Tecocomulco, Hidalgo como indicadores de la calidad ambiental*. M. Sc. Thesis, Universidad Autónoma del Estado de Hidalgo, Mineral de la Reforma, Hidalgo, Mexico, 69 p.
- ALEXANDER C. G. 1954. — *Microcotyle macracantha* n. sp., a monogenetic trematode from the Gulf of California, with a redescription of *Amphibdelloides MacCallumi* (Johnston and Tiegs, 1922) Price, 1937. *Journal of Parasitology* 40: 279-283. <https://doi.org/10.2307/3273739>
- ALVARADO-RAMÍREZ H. 1993. — *Algunos helmintos de la tortuga de agua dulce Pseudemys scripta elegans de la Laguna de Salinillas, Anahuac, N. L., México*. B. S. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, Monterrey, Nuevo León, México, 50 p.
- ALVARADO-VILLAMAR M. R. & RUIZ-CAMPOS G. 1992. — Estudio comparativo del grado de infestación de macroparásitos en seis especies de *Sebastes* (Pisces, Scorpaenidae) de la costa noroccidental de Baja California, México. *Ciencias Marinas* 18: 79-92.
- ÁLVAREZ-BORRERO J. & FAJER-ÁVILA E. 2006. — Identification of plathyhelminth parasites of the wild bullseye pufferfish (*Sphoeroides annulatus* Jenyns, 1853) using invariant digital color correlation. *Revista de Biología Marina y Oceanografía* 41: 129-139. <https://doi.org/10.4067/S0718-19572006000100017>
- AMATO J. F. R. 1994. — *Pseudobocotylophora atlantica* n. gen., n. sp. (Monogenea: Bicotylophoridae n. fam.) parasite of *Trachinotus* spp. (Osteichthyes: Carangidae) and redescription of *Bicotylophora trachinoti*. *Revista Brasileira de Parasitologia Veterinaria* 3: 99-108.
- ARAI H. P. & KOSKI C. H. 1964. — A new species of *Trochopus* (Monogenea: Capsalidae) from *Scorpaena guttata* Girard. *Canadian Journal of Zoology* 42: 1007-1010. <https://doi.org/10.1139/z64-097>
- ARANDA-CRUZ C. V. 2006. — *Platelmintos parásitos de la "sarangola" Microlepidotus brevipinnis Steindachner, 1869 (Haemulidae) de la Bahía de Chamela, Jalisco*. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 95 p.
- AYADI Z. E. M., GEY D., JUSTINE J. L. & TAZEROUTI F. 2017. — A new species of *Microcotyle* (Monogenea: Microcotylidae) from *Scorpaena notata* (Teleostei: Scorpaenidae) in the Mediterranean Sea. *Parasitology International* 66: 37-42. <https://doi.org/10.1016/j.parint.2016.11.004>
- BARSE A. M. & BULLARD S. A. 2012. — Redescription and new host record of *Capsala laevis* (Monogenea: Capsalidae: Capsalinae) from gill of roundscale spearfish, *Tetrapturus georgii* (Perciformes: Istiophoridae) in the northwestern Atlantic Ocean. *Journal of Parasitology* 98: 735-745. <https://doi.org/10.1645/GE-3093.1>
- BAUTISTA-HERNÁNDEZ C. E. 2008. — *Helminthofauna de un Goo-deidae del Lago de Tecocomulco, Hidalgo, México*. B. S. Thesis, Instituto de Ciencias Básicas e Ingeniería, Área Académica de Ingeniería, Universidad Autónoma del Estado de Hidalgo, Pachuca, Hidalgo, México, 78 p.
- BAUTISTA-HERNÁNDEZ C. E., MONKS S. & PULIDO-FLORES G. 2014a. — Comunidades de helmintos parásitos de algunas especies de peces de dos localidades de la Huasteca Hidalguense. *Revista Científica Biológico-Agropecuaria Tuxpan* 2: 476-480.
- BAUTISTA-HERNÁNDEZ C. E., VIOLANTE-GONZÁLEZ J., MONKS S. & PULIDO-FLORES G. 2014b. — Helminth communities of *Xiphophorus malinche* (Pisces: Poeciliidae), endemic freshwater fish from the Pánuco River, Hidalgo, Mexico. *Revista Mexicana de Biodiversidad* 85: 838-844. <https://doi.org/10.7550/rmb.40560>
- BENITEZ-VILLA G. E. 2010. — *Tratamiento experimental para controlar la infección por Cichlidogyrus sclerosus (Platyhelminthes: Monogenea) en la Tilapia Oreochromis spp.* Thesis, Facultad de Biología, Universidad Veracruzana, Xalapa, Veracruz, 34 p.
- BEVERLEY-BURTON M. 1984. — Monogenea and Turbellaria, in MARGOLIS L. & KABATA Z. (eds), *Guide to the Parasites of Fishes in Canada*, Canadian Special Publication of Fisheries and Aquatic Sciences, Ottawa: 5-209.
- BEVERLEY-BURTON M. 1986. — The Taxonomic status of *Actinocleidus* Mueller, 1937; *Anchoradiscus* Mizelle, 1941; *Clavunculus* Mizelle *et al.*, 1956; *Anchoradiscoides* Rogers, 1967; *Synclitrium* Price, 1967 and *Crinicleidus* n. gen.: North American ancyrocephalids (Monogenea) with articulating haptor bars. *Journal of Parasitology* 72: 22-44. <https://doi.org/10.2307/3281794>
- BEVERLEY-BURTON M. & SURIANO D. M. 1981. — A revision of *Cycloplectanum* Oliver, 1968 (Monogenea Diplectanidae) and descriptions of *C. hongkongensis* n. sp. and *C. lantauensis* n. sp. from *Epinephelus* spp. (Serranidae) in the South China Sea. *Canadian Journal of Zoology* 59: 1276-1285. <https://doi.org/10.1139/z81-180>
- BILONG-BILONG C. F. 1988. — *Enterogyrus malmbergi* n. sp. (Monogenea – Ancyrocephalidae) parasite of the estomac du Cichlidae *Tilapia nilotica* Linné, 1757 au Sud-Cameroun. *Annales de la Faculté des Sciences Biologie Biochimie* 5: 51-58.
- BOEGER A. W. & KRITSKY D. C. 1989. — Phylogeny, coevolution, and revision of the Hexabothriidae Price, 1942 (Monogenea). *International Journal for Parasitology* 19: 425-440. [https://doi.org/10.1016/0020-7519\(89\)90099-4](https://doi.org/10.1016/0020-7519(89)90099-4)
- BOEGER A. W. & KRITSKY D. C. 1993. — Phylogeny and a revised classification of the Monogenea Dicoe Bychowsky, 1937 (Platyhelminthes). *Systematic Parasitology* 26: 1-32. <https://doi.org/10.1007/BF00009644>
- BRAVO-ARTEAGA J. 2008. — *Fauna helmintológica asociada a algunas especies del género Algansea Girard, 1856 (Cyprinidae) distribuidas en cuerpos de agua de la Mesa Central de México*. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 53 p.
- BRAVO-HOLLIS M. 1951. — Acerca de un nuevo tremátodo del Orden Monogenea van Beneden, 1858. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 22: 497-503.
- BRAVO-HOLLIS M. 1953. — Monogéneos de las branquias de los peces marinos de las costas de México IV. *Memorias del Congreso Científico Mexicano* 7: 139-146.
- BRAVO-HOLLIS M. 1954. — *Diplectanum amplidiscatum* n. sp., trématode monogénétique des branchies d'un poisson marin VI. *Annales de Parasitologie Humaine et Comparée* 29: 37-41. <https://doi.org/10.1051/parasite/1954291037>

- BRAVO-HOLLIS M. 1957. — Tremátodos de peces marinos de aguas mexicanas XIV. Cuatro monogéneos de la familia Capsalidae Baird, 1853, de las costas del Pacífico, incluyendo una especie nueva. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 28: 195-216.
- BRAVO-HOLLIS M. 1960. — Tremátodos de peces de aguas mexicanas del Pacífico XVI. *Microcotyle caballeroi* n.sp., monogéneo microcotilido de la subfamilia Microcotylinae, Monticelli, 1892, in BRAVO-HOLLIS M., ZERECERO C. M., FLORES-BARROETA L., HIDALGO-ESCALANTE E. & WINTER H. A. (eds), *Libro Homenaje al Dr. Eduardo Caballero y Caballero*. Secretaría de Educación Pública e Instituto Politécnico Nacional, Mexico City: 87-93.
- BRAVO-HOLLIS M. 1966. — Helminths of fishes of the Pacific Mexican XXV. Descripción de tres monogéneos del Golfo de California. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 37: 107-123.
- BRAVO-HOLLIS M. 1968. — Helminths of fishes of the Pacific Mexican XXVII. Descripción de *Neotetraonchus bychowskyi* gen., nov., sp., nov., (Neotetraonchidae fam., nov.) de las branquias de *Galeichthys seemanii* (Günther). *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 39: 13-28.
- BRAVO-HOLLIS M. 1969. — Helminths of fishes of the Pacific Mexican XXX. Descripción de tres monogéneos de la familia Monocotylidae Träschenberg, 1879. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 40: 161-178.
- BRAVO-HOLLIS M. 1970. — Helminths of fishes of the Pacific Mexican XXXI. Descripción de *Loimosina parawilsoni* sp. nov., (Fam. Loimoidae Bychowsky, 1957) de *Sphyrna lewini* (Griffith) de Mazatlán, Sinaloa. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 41: 147-152.
- BRAVO-HOLLIS M. 1971. — Helminths of fishes of the Pacific Mexican XXIX. Descripción de dos monogéneos nuevos de la familia Capsalidae Baird, 1853, subfamilia Benedeniinae, Johnston, 1931, de Baja California. *Revista de Biología Tropical* 18: 155-171.
- BRAVO-HOLLIS M. 1978a. — Monogéneos de la Colección Winter I. Sobre seis especies de la superfamilia Microcotyloidea Unnithan, 1957. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 49: 11-18.
- BRAVO-HOLLIS M. 1978b. — Helminths of fishes of the Pacific Mexican XXXIII. Monogéneos del Golfo de Cortés, Baja California. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 49: 1-9.
- BRAVO-HOLLIS M. 1979a. — Helminths of fish from the Mexican Pacific. XXXIV. Description of a new species of *Neobivagina* Dillon y Hargis, 1965 (Monogenea: Microcotylinae Monticelli, 1892). *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 50: 9-17.
- BRAVO-HOLLIS M. 1979b. — Monogéneos de peces de la Colección Winter II. Sobre un protomicrocotilido nuevo de *Caranx hippos* Günther del Pacífico mexicano. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Serie Ciencias del Mar y Limnología* 6: 189-196.
- BRAVO-HOLLIS M. 1980a. — Helminths of fishes of the Pacific XXXV. Descripción de un género nuevo de la subfamilia Microcotylinae Monticelli, 1892. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 51: 29-40.
- BRAVO-HOLLIS M. 1980b. — Monogenea (van Beneden, 1858) Carus, 1863 de peces del litoral mexicano del Golfo de México y del Mar Caribe VII. Descripción de una especie nueva del género *Rhinecotyle* Euzet y Trilles, 1960. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 51: 41-50.
- BRAVO-HOLLIS M. 1981a. — Helminths of fishes of the Pacific Mexican XXXVII. Sobre seis especies conocidas de monogéneos del suborden Microcotylinae Lebedev, 1972. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 52: 1-12.
- BRAVO-HOLLIS M. 1981b. — Helminths of fishes of the Pacific Mexican XXXIX. Dos subfamilias nuevas de monogéneos de la familia Macrovalvitrematidae Yamaguti, 1963. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 52: 27-38.
- BRAVO-HOLLIS M. 1981c. — Helminths of fishes of the Pacific Mexican XXXVIII. Estudio de monogéneos del suborden Microcotylinae Lebedev, 1972, con la presentación de una nueva subfamilia y una especie nuevas. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 52: 13-26.
- BRAVO-HOLLIS M. 1981d. — Helminths of fishes of the Pacific Mexican XXXVI. Sobre un género y subfamilia nuevos de la familia Microcotylidae Taschenberg, 1879. Emend. *Anales del Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México* 8: 305-314.
- BRAVO-HOLLIS M. 1983a. — Monogenea (van Beneden, 1858) Carus, 1863 de peces marinos del Golfo de México y del Mar Caribe IX. Descripción de un género y una especie nuevos de la familia Heteraxinidae Price, 1962, subfamilia Heteraxininae Unnithan, 1957. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 54: 1-11.
- BRAVO-HOLLIS M. 1983b. — Helminths of fishes of the Pacific Mexican XL. Descripción de una nueva especie del género *Metamicrocotyla* Yamaguti, 1953 (Monogenea: Microcotylidae). *Anales del Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México* 10: 17-21.
- BRAVO-HOLLIS M. 1984a. — Monogenea (van Beneden, 1858) Carus, 1863 de peces del litoral mexicano del Golfo de México y del Mar Caribe X. Nuevas localidades de colecta de seis especies conocidas. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 55: 61-71.
- BRAVO-HOLLIS M. 1984b. — Monogenea (van Beneden, 1858) Carus, 1863 de peces marinos del litoral mexicano del Golfo de México y del Mar Caribe XI. Descripción de un género y especie nuevos de la subfamilia Chauhaninae Euzet y Trilles, 1960. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 55: 1-12.
- BRAVO-HOLLIS M. 1985. — Helminths of fishes of the Pacific Mexican XLI. Una especie nueva del género *Polynemicola*. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 56: 277-290.
- BRAVO-HOLLIS M. 1989. — Monogenea (van Beneden, 1858) Carus, 1863 de peces del Golfo de México y del Mar Caribe XII. Nuevas localidades de colecta de especies conocidas de gastrocotilidos. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 59: 14-56.
- BRAVO-HOLLIS M. & CABALLERO-RODRÍGUEZ G. 1970. — Helminths from fishes of Mexican waters of the Pacific Ocean XXVI. A new species of monogenea from La Paz, Baja California, Mexico. In: Sinh, K. S. & Tandan, B. K. (eds), *Srivastava Commemoration Volume*. Indian Veterinary Research, Izatnagar, India, p. 245-250.
- BRAVO-HOLLIS M. & JIMÉNEZ-GUZMÁN F. 1982. — Redescrípción de *Microcotyle spinicirrus* Mac Callum, 1918. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 53: 19-26.
- BRAVO-HOLLIS M. & LAMOTHE-ARGUMEDO R. 1976. — Helminths of fishes from the Mexican littoral of the Pacific XXXII. *Paradawesia bychowskyi* gen., nov., sp., nov., (Monogenoidea: Gastrocotylidae) from gills of mackerel. *Proceedings of the Institute of Biology and Pedology, Far-East Science Centre, Academy of Sciences of the U.S.S.R.* 34: 20-28. (in Russian).
- BRAVO-HOLLIS M. & LAMOTHE-ARGUMEDO R. 1987. — Monogenea de peces del Golfo de México y Mar Caribe XIII. Redescrípción de *Pseudochauhanella mexicana* Lamothe, 1967, parásito de *Sphyrna barracuda* (Walbaum) (Pisces). *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 58: 1-10.
- BRAVO-HOLLIS M. & SALGADO-MALDONADO G. 1982. — Monogenea (van Beneden, 1858) Carus, 1863 de peces del litoral mexicano del Golfo de México y del Caribe VIII. Presentación de siete especies conocidas con nuevas localidades geográficas y una nueva combinación. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 53: 1-18.



- BRAVO-HOLLIS M. & SALGADO-MALDONADO G. 1985. — Helmin-  
tos de peces del Pacífico mexicano XLII. *Neomicrocotyle pacifica*  
(Meserve, 1938) Yamaguti, 1968 (Monogenea: Protomicrocoty-  
lidae) parásito de *Caranx hippos*. *Anales del Instituto de Biología,  
Universidad Nacional Autónoma de México* 56: 651-670.
- BULLARD S. A. & OVERSTREET R. M. 2000. — *Calicotyle californiensis*  
n. sp. and *Calicotyle urobati* n. sp. (Monogenea: Calicotylinae)  
from elasmobranchs in the Gulf of California. *Journal of Parasitology* 86: 939-944. <https://doi.org/10.2307/3284801>
- BULLARD S. A., PAYNE R. R. & BRASWELL J. S. 2004. — New genus  
with two new species of capsalid Monogeneans from Dasyatids  
in the Gulf of California. *Journal of Parasitology* 90: 1412-1427.  
<https://doi.org/10.1645/GE-304R>
- BYCHOWSKY B. E. 1936. — Parasitological studies Baraba lakes.  
*Parazitologicheskii Sbornik* 6: 437-482.
- BYCHOWSKI B. E. 1957. — *Monogenetic Trematodes, their Systematics  
and Biology*. American Institute of Biological Sciences, Washing-  
ton D. C., 627 p.
- BYCHOWSKY B. E. & NAGIBINA L. 1967. — New Capsalidae  
(Monogenea) from Pacific fishes. *Parazitologiya* 1: 521-528.  
(in Russian).
- CABALLERO C. E. 1938. — Algunos tremátodos de reptiles de México.  
*Anales del Instituto de Biología, Universidad Nacional Autónoma  
de México* 9: 103-120.
- CABALLERO C. E. 1940. — Tremátodos de las tortugas de México.  
*Anales del Instituto de Biología, Universidad Nacional Autónoma  
de México* 11: 559-572.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1955. — Tremátodos de  
peces marinos de aguas mexicanas del Océano Pacífico. VIII.  
Descripción de tres nuevos géneros de tremátodos monogéneos.  
*Anales del Instituto de Biología, Universidad Nacional Autónoma  
de México* 26: 89-115.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1959. — Tremátodos de  
peces de aguas mexicanas del Pacífico XVII. Dos nuevos géneros  
de Monogenoidea Bychowsky, 1937. *Anales del Instituto de  
Biología, Universidad Nacional Autónoma de México* 30: 167-181.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1960. — Tremátodos de  
peces de aguas mexicanas del Pacífico XVIII. Un nuevo género  
y una nueva especie de Monogenoidea Bychowsky, 1937. *Ana-  
les del Instituto de Biología, Universidad Nacional Autónoma de  
México* 31: 197-205.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1961a. — Tremátodos  
de peces de aguas mexicanas del Pacífico XX. Tres especies de  
Monogenoidea Bychowsky, 1937. *Anales del Instituto de Biología,  
Universidad Nacional Autónoma de México* 32: 201-217.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1961b. — Trematodes  
from fishes of Mexican waters of the Pacific Ocean, XIX. A new  
genus and a new species of Monogenoidea Bychowsky, 1937.  
*Helminthologia* 3: 60-66.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1962a. — Trematodos de  
peces de aguas Mexicanas del Pacífico. XXII. Algunos monoge-  
neoideos de la costa Sonorense del Golfo de California. *Anales  
del Instituto de Biología, Universidad Nacional Autónoma de  
México* 33: 57-77.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1962b. — Tremátodos  
de peces de aguas mexicanas del Pacífico XXI. Sobre un nuevo  
género de la familia Diclidophoridae Fuhrmann, 1928. *Revista  
Brasileira de Biología* 22: 107-114.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1963. — Helmin-  
tos de peces de aguas mexicanas del Pacífico XXIII. Descripción de cuatro  
nuevos monogéneos y una breve consideración sobre nomen-  
clatura de esta clase. *Anales del Instituto de Biología, Universidad  
Nacional Autónoma de México* 34: 163-203.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1965a. — Monogenea de  
peces marinos del litoral mexicano del Golfo de México y del  
Mar Caribe I. *Bulletin of Marine Sciences* 15: 535-547.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1965b. — Monogenea  
(van Beneden, 1858) Carus, 1863 de peces marinos del litoral  
mexicano del Golfo de México y del Mar Caribe II. *Revista de  
Biología Tropical* 13: 101-21.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1967. — Monogenea (van  
Beneden, 1858) Carus, 1863 de peces marinos del litoral mexicano  
del Golfo de México y del Mar Caribe III. *Anales del Instituto de  
Biología, Universidad Nacional Autónoma de México* 38: 27-34.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1969. — Monogenea  
(van Beneden, 1858) Carus, 1863 de peces marinos del litoral  
mexicano del Golfo de México y del Mar Caribe IV. *Anales del  
Instituto de Biología, Universidad Nacional Autónoma de México,  
Serie Ciencias del Mar y Limnología* 40: 55-68.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1972. — Monogenea (van  
Beneden, 1858) Carus, 1863 de peces marinos del litoral mexi-  
cano del Golfo de México y del Mar Caribe V. *Revista de Biología  
Tropical* 20: 151-165.
- CABALLERO C. E. & BRAVO-HOLLIS M. 1973. — Monogenea  
(van Beneden, 1858) Carus, 1863 de peces marinos del litoral  
mexicano del Golfo de México y del Mar Caribe VI. *Revista de  
Biología Tropical* 21: 33-40.
- CABALLERO C. E. & CABALLERO-RODRÍGUEZ G. 1976. — Mono-  
geneans of marine fishes from Mexican littoral of Mexico Gulf  
and Caribbean Sea VII. *Proceedings of the Institute of Biology and  
Pedology, Far-East Science Centre, Academy of Sciences of the USSR*  
34: 41-47. (in Russian).
- CABALLERO C. E. & HERRERA-ROSALES E. 1947. — Tremátodos  
de las tortugas de México V. Descripción de una nueva especie  
del género *Telorchis*. *Anales del Instituto de Biología, Universidad  
Nacional Autónoma de México* 18: 159-164.
- CABALLERO C. E. & ZERECERO C. 1941. — Una nueva especie  
de *Polystoma* (Trematoda: Polystomatidae) parásito de la vejiga  
urinaria de *Hyla baudinii*. (Dum. y Bibr.). *Anales del Instituto de  
Biología, Universidad Nacional Autónoma de México* 12: 615-621.
- CABALLERO C. E., BRAVO-HOLLIS M. & GROCOTT R. G. 1954. —  
Helmin-  
tos de la República de Panamá XII. Descripción de dos  
nuevos tremátodos monogéneos parásitos de peces marinos  
comestibles del Océano Pacífico del norte. *Ciencia México* 14: 4-6.
- CABALLERO C. E., BRAVO-HOLLIS M. & GROCOTT R. G. 1955. —  
Helmin-  
tos de la República de Panamá XIV. Tremátodos mono-  
géneos y digéneos de peces marinos del Océano Pacífico del  
norte, con descripción de nuevas formas. *Anales del Instituto  
de Biología, Universidad Nacional Autónoma de México, Serie  
Zoología* 26: 117-147.
- CABAÑAS-CARRANZA G. 2001. — *Comunidades de helmintos parásitos  
de seis especies de peces de la Laguna El Jabalí, Jalisco, México*. B. S.  
Thesis, Facultad de Ciencias, Universidad Nacional Autónoma  
de México, Mexico City, 82 p.
- CALZADA-RODRÍGUEZ M. A. 1993. — *Algunos parásitos de la carpa  
(Cyprinus carpio) y de la cuchilla (Dorosoma cepedianum) de la  
Laguna de Salinillas, Municipio de Anahuac, Nuevo León, México*. B.  
S. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma  
de Nuevo León, Monterrey, Nuevo León, Mexico, 69 p.
- CANCELA-MORA J. 1995. — *Fauna helmintológica del chucumite  
Centropomus parallelus (Poey, 1860) en el Sistema Lagunar de  
Alvarado, Veracruz, México*. B. S. Thesis, Facultad de Biología,  
Universidad Veracruzana, Xalapa, Veracruz, Mexico, 62 p.
- CANO F. E. C. 1994. — *Estudio de la prevalencia de tremátodos mono-  
géneos infectando el bagre de canal (Ictalurus punctatus Rafinesque,  
1918), en la Laguna Salinillas, Anahuac, Nuevo León, México*. B.Sc.  
Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma  
de Nuevo León, Monterrey, Nuevo León, Mexico, 130 p.
- CARBAJAL-VIOLANTE J. 2012. — *Análisis de la comunidad de parásitos  
de la raya Rhinoptera steindachneri y algunos aspectos importantes de  
su biología en la Bahía de Acapulco, Guerrero, México*. B. S. Thesis,  
Escuela Superior de Ecología Marina, Universidad Autónoma  
de Guerrero, Acapulco, Guerrero, México, 88 p.
- CARBALLO-CRUZ V. R. 1990. — *Estudio ecológico de las infrapobla-  
ciones de parásitos que infectan las branquias y superficies externas  
de la "mojarra paleta" Cichlasoma synspilum Günther, 1860 en la*



- Laguna de las Ilusiones, Tabasco, México. B. S. Thesis, División Académica de Ciencias Biológicas, Universidad Juárez Autónoma de Tabasco, Villahermosa, Tabasco, Mexico, 75 p.
- CASPETA-MANDUJANO J. M., CABAÑAS-CARRANZA G. & MENDOZA-FRANCO E. 2009. — *Helminthos parásitos de peces dulceacuicolas mexicanos (caso Morelos)*. A.G.T. Editor y Universidad Autónoma del Estado de Morelos, Mexico City, 130 p.
- CASTILLO-SÁNCHEZ E., GARCÍA-PRÍETO L. & PÉREZ-PONCE DE LEÓN G. 1997. — Helminthofauna de *Euthynnus lineatus* (Perciformes: Scombridae) en Jalisco, México. *Revista de Biología Tropical* 45: 1251-1254.
- CEZAR A. D., LUQUE J. L. & AMATO J. F. R. 1999. — Two new species of Monogenea (Platyhelminthes: Cercomeridae) parasitic on *Chaetodipterus faber* (Teleostei: Ephippidae) from the Brazilian coastal zone. *Revista de Biología Tropical* 47: 393-398.
- CHÄARI M., DERBEL H. & NEIFAR L. 2016. — *Axinoides euzetii* n. sp. (Monogenea: Axinidae) from the gills of the needlefish *Tylosurus acus imperialis* (Rafinesque) (Belonidae) off Tunisia, with an updated list of hosts and localities for *Axinoides* spp. *Systematic Parasitology* 93: 917-926. <https://doi.org/10.1007/s11230-016-9669-1>
- CHÁVEZ-SORIANO L. A. 1998. — *Lesiones histológicas asociadas a parásitos en la mojarra "tenguayaca" (Petenia splendida Günther, 1862) de la Presa Temascal, Oaxaca, México*. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 71 p.
- CHISHOLM L. A. & WHITTINGTON I. D. 1998. — Revision of Decacotylinae Chisholm, Wheeler and Beverley Burton, 1995 (Monogenea: Monocotylidae), including the synonymy of *Papillicotyle* Young, 1967 with *Decacotyle* Young, 1967 and a description of a new species from Australia. *Systematic Parasitology* 41: 9-20. <https://doi.org/10.1023/A:1006095219012>
- CHISHOLM L. A. & WHITTINGTON I. D. 2006. — Revision of *Capsaloides* (Monogenea: Capsalidae) with a redescription of *C. magnaspinosus* Price, 1939 from the nasal tissue of *Tetrapterus audax* (Istiophoridae) collected off Nelson Bay, New South Wales, Australia. *Zootaxa* 1160: 1-20.
- CHISHOLM L. A. & WHITTINGTON I. D. 2007. — Review of the Capsalinae (Monogenea: Capsalidae). *Zootaxa* 1559: 1-30.
- CHISHOLM L. A., HANSKNECHT T. J., WHITTINGTON I. D. & OVERSTREET R. M. 1997. — A revision of Calicotylinae Monticelli, 1903 (Monogenea: Monocotylidae). *Systematic Parasitology* 38: 159-183. <https://doi.org/10.1023/A:1005844306178>
- CONTRERAS-ARCE R. 2001. — Monogeneos del botete diana silvestre (*Sphoeroides annulatus* Jenyns, 1853) y evaluación "in vitro" del empleo de hierbabuena y formalina para su control. B. S. Thesis, Facultad de Ciencias del Mar, Universidad Autónoma de Sinaloa, Mazatlán, Sinaloa, Mexico, 45 p.
- CONTRERAS-DENIS J. 1997. — *Análisis de la comunidad de parásitos de Cichlasoma passionis (cortín rojo) en el meandro "Río Muerto", Tacotalpa, Tabasco*. B. S. Thesis, División Académica de Ciencias Biológicas, Universidad Juárez Autónoma de Tabasco, Villahermosa, Tabasco, Mexico, 65 p.
- DEL RÍO-RODRÍGUEZ E. 1994. — *Estudio prospectivo de la infracomunidad de parásitos que infectan al bobo Ictalurus meridionalis (Günther, 1864) en Boca del Cerro, Tenosique, Tabasco, como antecedente al proyecto de embalsamiento de esta área*. B. S. Thesis, División Académica de Ciencias Biológicas, Universidad Juárez Autónoma de Tabasco, Villahermosa, Tabasco, Mexico, 112 p.
- DEL RÍO-ZARAGOZA O. B., FAJER-ÁVILA E. & ALMAZÁN-RUEDA P. 2010. — Haematological and gill responses to an experimental infection of dactylogyrid monogeneans on the spotted rose snapper *Lutjanus guttatus* (Steindachner, 1869). *Aquaculture Research* 41: 1592-1601. <https://doi.org/10.1111/j.1365-2109.2009.02471.x>
- DE WITT-SEPÚLVEDA G. 1992. — *Tremátodos monogéneos en peces dulceacuicolas del Noreste de México y su relación con algunos factores ecológicos*. M. Sc. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, Monterrey, Nuevo León, Mexico, 168 p.
- DE WITT-SEPÚLVEDA G. & GALAVÍZ-SILVA L. 1992. — Nuevo registro de localidad para *Pseudomazocraeoides megalocotyle* (Trematoda: Monogenea) Price, 1961 del pez *Dorosoma cepedianum* Le Sueur (Clupeidae). *Publicaciones Biológicas de la Universidad Autónoma de Nuevo León* 6: 14-17.
- DIESING C. M. 1850. — *Systema Helminthum, Volume I*. Wilhelm Braumüller, Vindobonae, Vienna. 680 p.
- DIESING C. M. 1858. — Revision der Myzelminthen. Abtheilung: Trematoden. Sitzungsberichte der kaiserlichen Akademie der Wissenschaften. *Mathematisch Naturwissenschaftliche* 32: 307-390.
- DILLON A. W. & HARGIS W. J. 1965. — Monogenetic trematodes from the Southern Pacific Ocean. 2. Polyopisthocotyleids from New Zealand fishes: The Families Discocotylidae, Microcotylidae, Axinidae, and Gastrocotylidae. *Biology of the the Antarctic Seas* 2: 251-280.
- DORAN D. J. 1953. — New Monogenetic Trematodes from the Shovelnose Guitarfish, *Rhinobatos productus* (Ayres). *Journal of Parasitology* 39: 145-151 <https://doi.org/10.2307/3274109>
- DOUËLLOU L. 1993. — Monogeneans of the genus *Cichlidogyrus* Paperna, 1960 (Dactylogyridae: Ancyrocephalinae) from cichlid fishes of Lake Kariba (Zimbabwe) with descriptions of five new species. *Systematic Parasitology* 25: 159-186. <https://doi.org/10.1007/BF00007007>
- DOLLFUS R. 1962. — Deux espèces de trématodes monogénétiques parasites du Bluefin tuna de Californie. *Annales de Parasitologie Humaine et Comparée* 37: 517-519. <https://doi.org/10.1051/parasite/1962374517>
- DOMINGUES M. V. 2004. — *Filogenia e Taxonomia de Diplectanidae Monticelli, 1903 (Platyhelminthes: Monogenoidea)*. Ph. D. Thesis, Universida de Federal do Paraná, Curitiba, Paraná, Brazil, 217 p.
- DOMINGUES M. V. & BOEGER W. A. 2006. — Revision and phylogeny of Rhamnocercinae Monaco, Wood et Mizelle, 1954 (Monogenoidea: Diplectanidae). *Folia Parasitologica* 53: 107-116. <https://doi.org/10.14411/fp.2006.014>
- DOMINGUES M. V. & BOEGER W. A. 2007. — The status of *Acleotrema* Johnston & Tiegs, 1922 and *Heteroplectanum* Rakotofiringa, Oliver & Lambert, 1987 (Monogenoidea: Diplectanidae), with the redescription of *Acleotrema girellae* Johnston & Tiegs, 1922. *Systematic Parasitology* 66: 35-41. <https://doi.org/10.1007/s11230-006-9051-9>
- DOMINGUES M. V. & BOEGER W. A. 2008. — Phylogeny and revision of Diplectanidae Monticelli, 1903 (Platyhelminthes: Monogenoidea). *Zootaxa* 1698: 1-40.
- DOMINGUES M. V., DIAMANKA A. & PARISELLE A. 2011. — A Monogenoids (Diplectanidae, Polyonchoinea) from the gills of mojaras (Perciformes, Gerreidae) with the resurrection of *Neodiplectanum* Mizelle & Blatz, 1941 and the proposal of *Darwinoplectanum* n. gen. *Zootaxa* 3010: 1-19.
- DUJARDIN F. 1845. — *Historie naturelle des helminthes, ou vers intestinaux*. Librairie Encyclopédique de Roret, Paris, 654 p.
- DYER W. G., WILLIAMS E. H. & BUNKLEY-WILLIAMS L. 1992. — *Neobenedenia paragueraensis* n. sp. (Monogenea: Capsalidae) from the red hind, *Epinephelus guttatus*, and comments about *Neobenedenia melleni*. *Journal of Parasitology* 78: 399-401. <https://doi.org/10.2307/3283634>
- EGOROVA T. P. 1994. — About new genus *Megalobenedenia* (Capsalidae: Trochopodinae). *Parazitologiya* 28: 76-78. (in Russian).
- ESCOBAR-GONZÁLEZ B. 1997. — *Parásitos del besugo (Aplodinotus grunniens) Rafinesque, 1819 y de la tilapia (Sarotherodon aurea) Steindachner, 1864 en la Laguna de Salinillas, Anahuac, N.L., México*. M. Sc. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, Monterrey, Nuevo León, Mexico, 54 p.
- ESCORTIA-IGNACIO R., PULIDO-FLORES G. & MONKS S. 2015. — Distribution extension of *Dasyonchocotyle dasyatis* (Yamaguti, 1968) Boeger & Kritsky, 1989 (Monogenea: Hexabothriidae) in *Dasyatis longa* (Garman, 1880) (Myliobatiformes: Dasy-

- atidae) from Sinaloa, México. *Check List* 11: 1528. <https://doi.org/10.15560/11.1.1528>
- ESPÍNOLA-NOVELO J. F., GONZÁLEZ-SALAS C., GUILLÉN-HERNÁNDEZ S. & MACKENZIE K. 2013. — Metazoan parasites of *Mycteroperca bonaci* (Epinephelidae) off the coast of Yucatán, Mexico, with a checklist of its parasites in the Gulf of Mexico and Caribbean region. *Revista Mexicana de Biodiversidad* 84: 1111-1120. <https://doi.org/10.7550/rmb.27989>
- EUZET L. & BIRGI E. 1975. — *Heterobothrium fluviatilis* n. sp. (Monogenea: Dicliphoridae) parasite branchial de *Tetraodon fabaka* Bennet, 1834 (Teleostei) au Tchad. *Bulletin de la Société Zoologique de France* 100: 411-420.
- EUZET L. & KTARI M. H. 1970. — *Pyracanthophorus hollisiae* n.sp. (Monogenea) parasite of *Lichia glauca* (L. 1758) (Carangidae) in the Mediterranean. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 41: 61-71.
- EUZET L. & KTARI M. H. 1973. — Les Calceostomatidae (Monogenea) parasites de Téléostéens du Golfe du Tunis. Développement larvaire et position systématique. *Bulletin de l'Institut Océanographique* 2: 605-622.
- EUZET L. & SURIANO D. M. 1977. — *Ligophorus* n. g. (Monogenea, Ancyrocephalidae) parasite des Mugilidae (Téléostéens) en Méditerranée. *Bulletin du Muséum National d'Histoire Naturelle* 472: 799-821.
- EUZET L. & WAHL E. 1970. — Parasites de poissons de mer ouest-africains, récoltés par J. Cadenat. VII. Sur un Monogène de *Hynnys goreensis* Cuv. et Val. (Téléostéens, Carangidae). *Bulletin de l'Institut Français d'Afrique Noire* 32: 73-82.
- EUZET L. & WAHL E. 1977. — *Bicotylophora baeri* n. sp. (Monogenea) parasite branchial du Téléostéen *Trachinotus falcatus* (L., 1758) en Côte-d'Ivoire. *Revue Suisse de Zoologie* 84: 71-79.
- FAJER-ÁVILA E., ROQUE J. A., AGUILAR G. & DUNCAN N. 2004. — Patterns of occurrence of the Platyhelminth parasites of the wild bullseye puffer (*Sphoeroides annulatus*) off Sinaloa, México. *Journal of Parasitology* 90: 415-418. <https://doi.org/10.1645/GE-3152RN>
- FAJER-ÁVILA E. J., GARCÍA-VÁSQUEZ A., PLASCENCIA-GONZÁLEZ H., RÍOS-SICAÍROS J., GARCÍA-DE LA PARRA L. M. & BETANCOURT-LOZANO M. 2006. — Copepods and larvae of nematodes parasitizing the white mullet *Mugil curema* (Valenciennes, 1836): indicators of anthropogenic impacts in Tropical Coastal lagoons? *Environmental Monitoring and Assessment* 122: 221-237. <https://doi.org/10.1007/s10661-005-9177-2>
- FAJER-ÁVILA E. J., VELÁZQUEZ-MEDINA S. P. & BETANCOURT-LOZANO M. 2007. — Effectiveness of treatments against eggs, and adults of *Haliotrema* sp. and *Euryhaliotrema* sp. (Monogenea: Ancyrocephalinae) infecting red snapper, *Lutjanus guttatus*. *Aquaculture* 264: 66-72. <https://doi.org/10.1016/j.aquaculture.2006.12.035>.
- FEHLAUER-ALE K. H. & LITTLEWOOD T. H. 2011. — Molecular phylogeny of *Potamotrygonocotyle* (Monogenea, Monocotylidae) challenges the validity of some of its species. *Zoologica Scripta* 40: 638-658. <https://doi.org/10.1111/j.1463-6409.2011.00496.x>
- FISCHTHAL J. H. & ALLISON L. N. 1940. — *Acolpenteron ureterocetes* n. g., n. sp., monogenetic trematode from the ureters of Black Basses. *Journal of Parasitology* 26: 34-35.
- FLORES-CRESPO J. & FLORES-CRESPO R. 2003. — Monogeneos, parásitos de peces en México: estudio recapitulativo. *Técnica Pecuaria en México* 41: 175-192.
- FLORES-CRESPO J., IBARRA V. F., FLORES-CRESPO R. & VÁSQUEZ P. C. 1992. — Variación estacional de *Dactylogyrus* sp. en dos unidades productoras de tilapia del estado de Morelos. *Técnica Pecuaria en México* 30: 109-118.
- FLORES-CRESPO J., FLORES-CRESPO R., IBARRA-VELARDE F., VERA-MONTENEGRO Y. & VÁSQUEZ-PELÁEZ C. 1995. — Evaluación de quimioterapéuticos contra la ciclodogiriasis de la tilapia (*Oreochromis hornorum*) en México. *Revista Latino Americana de Microbiología* 37: 179-187.
- FLORES-HERRERA R. 1995. — *Parásitos de cabrillas del género Mycteroperca* (Gill, 1863) (Osteichthyes: Serranidae) en el sur de la Península de Baja California, México. B. S. Thesis, Departamento de Biología Marina, Universidad Autónoma de Baja California Sur, La Paz, Baja California Sur, Mexico, 147 p.
- FLORES-SOTELO M. T. 1998. — *Comparación de los helmintos parásitos de Hybopsis boucardi* (Günther, 1968) (Pisces: Cyprinidae) en dos localidades del Municipio de Coatlán del Río en el estado de Morelos, México. B. S. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma del Estado de Morelos, Cuernavaca, Morelos, Mexico, 45 p.
- FROESE R. & PAULY D. 2016. — FishBase. World Wide Web electronic publication. [www.fishbase.org](http://www.fishbase.org) (10/2016).
- FROST D. R. 2014. — Amphibian Species of the World: an Online Reference. Version 5.0 (28 February, 2014). Electronic Database accessible at <http://research.amnh.org/herpetology/amphibia/index.php>. American Museum of Natural History, New York, USA.
- FUCUGAUCHI M., GARCÍA-MAGAÑA L. & BRITO-ARJONA B. 1988. — Análisis previo de la parasitofauna de peces de la Laguna del Rosario, Huimanguillo, Tabasco. *Divulgación Científica* 1: 319-335.
- FUJII H. 1944. — Three monogenetic trematodes from marine fishes. *Journal of Parasitology* 30: 153-158.
- FUENTES-ZAMBRANO J. L. 1997. — Dos especies nuevas de monogéneos (Diplectanidae) parásitos de peces marinos de la Laguna de la Restinga. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Serie Zoología* 68: 225-236.
- GALAVÍZ-SILVA L., DE WITT-SEPÚLVEDA G., MERCADO-HERNÁNDEZ R., MARTÍNEZ-HERNÁNDEZ J. J. & SEGOVIA-SALINAS F. 1990. — New localities for monogenetic trematodes and other ectoparasites of carp *Cyprinus carpio* and catfish *Ictalurus punctatus* in northeastern Mexico and their relations with some biotic and abiotic factors. *Journal of Elisha Mitchell Scientific Society* 106: 64-77.
- GALAVÍZ-SILVA L., MOLINA-GARZA Z. J., ESCOBAR-GONZÁLEZ B. & IRUEGAS-BUENTELLO F. 2013. — Metazoan parasites of the channel catfish (*Ictalurus punctatus*) from three dams in Nuevo Leon, Mexico. *Hidrobiológica* 23: 394-398.
- GALAVÍZ-SILVA L., IRUEGAS-BUENTELLO F. J., ESCOBAR-GONZÁLEZ B. & MOLINA-GARZA Z. J. 2015. — Infection levels and seasonality of monogeneans in the largemouth bass *Micropterus salmoides* (Perciformes: Centrarchidae) from Nuevo León, Mexico. *Journal of Helminthology* 89: 1-8. <https://doi.org/10.1017/S0022149X15000954>
- GARCÍA A. P. 1999. — *Contribución al estudio de algunos aspectos biológicos y determinación de los principales parásitos que atacan a Cichlasoma trimaculatum* (Günther, 1868), *Galeichthys caeruleus* (Günther, 1864) y *Mugil curema* (Valenciennes, 1830); tres especies de peces de importancia comercial de la Laguna de Tres Palos, Guerrero, México. B. S. Thesis, Escuela Superior de Ecología Marina, Universidad Autónoma de Guerrero, Acapulco, Guerrero, Mexico, 69 p.
- GARCÍA-MAGAÑA L. & LÓPEZ-JIMENEZ S. 2008. — Parásitos de peces de la reserva de la biosfera "Pantanos de Centla", Tabasco: algunas recomendaciones para su prevención y control. *Kuxulkab'* 14: 13-22.
- GARCÍA-PRIETO L., MENDOZA-GARFÍAS B. & PÉREZ-PONCE DE LEÓN G. 2014. — Biodiversidad de Platyhelminthes parásitos en México. *Revista Mexicana de Biodiversidad* 85: S164-S170. <https://doi.org/10.7550/rmb.31756>
- GARCÍA-VARGAS F. 2008. — *Helmintos parásitos del pargo lunarejo, Lutjanus guttatus Steindachner, 1869 (Pisces: Lutjanidae) en dos localidades del Pacífico mexicano: estudio taxonómico y análisis ecológico de las comunidades de endohelmintos*. Ph. D. Thesis, Centro de Investigación en Alimentación y Desarrollo, Mazatlán, Sinaloa, Mexico, 102 p.
- GARCÍA-VARGAS F., FAJER-ÁVILA E. J. & LAMOTHE-ARGUMEDO R. 2008. — Two new species of Dactylogyridae (Monogeneoidea) on rose spotted snapper, *Lutjanus guttatus* (Osteichthyes: Lutjanidae), from the coasts of Nayarit and Sinaloa, Mexico. *Zootaxa* 1729: 61-68.



- GARCÍA-VÁSQUEZ A., HANSEN H. & SHINN A. P. 2007. — A revised description of *Gyrodactylus cichlidarum* Paperna, 1968 (Gyrodactylidae) from the Nile tilapia, *Oreochromis niloticus niloticus* (Cichlidae), and its synonymy with *G. niloticus* Cone, Arthur et Bondad-Reantaso, 1995. *Folia Parasitologica* 54: 129-140.
- GARCÍA-VÁSQUEZ A., HANSEN H., CHRISTISON K. W., RUBIO-GODOY M., BRON J. E. & SHINN A. P. 2010. — Gyrodactylids (Gyrodactylidae, Monogenea) infecting *Oreochromis niloticus niloticus* (L.) and *O. mossambicus* (Peters) (Cichlidae): A pan-global survey. *Acta Parasitologica* 55: 215-229. <https://doi.org/10.2478/s11686-010-0042-2>
- GARCÍA-VÁSQUEZ A., HANSEN H., CHRISTISON K. W., BRON J. E. & SHINN A. P. 2011. — A Description of three new species of *Gyrodactylus* von Nordmann, 1832 (Monogenea) parasitising *Oreochromis niloticus niloticus* (L.) and *O. mossambicus* (Peters) (Cichlidae). *Acta Parasitologica* 56: 20-33. <https://doi.org/10.2478/s11686-011-0005-2>
- GARCÍA-VÁSQUEZ A., PINACHO-PINACHO C., SOLER-JIMÉNEZ C. L., FAJER-ÁVILA E. & PÉREZ-PONCE DE LEÓN G. 2015a. — *Haliotrema* spp. (Monogenea: Dactylogyridae) parasitizing *Lutjanus guttatus* (Lutjanidae) in two localities of Pacific coast of Mexico, and their phylogenetic position within the Ancyrocephalinae through sequences of the 28S rRNA. *Revista Mexicana de Biodiversidad* 86: 298-305. <https://doi.org/10.1016/j.rmb.2015.04.027>
- GARCÍA-VÁSQUEZ A., RAZO-MENDIVIL U. & RUBIO-GODOY M. 2015b. — Morphological and molecular description of eighth new species of *Gyrodactylus* von Nordmann, 1832 (Platyhelminthes: Monogenea) from poeciliid fishes, collected in their natural distributin range in the Gulf of Mexico slope, Mexico. *Parasitology Research* 114: 3337-3355. <https://doi.org/10.1007/s00436-015-4559-z>
- GARCÍA-VÁSQUEZ A., RAZO-MENDIVIL U. & RUBIO-GODOY M. 2017. — Triple trouble? Invasive poeciliid fishes carry the introduced tilapia pathogen *Gyrodactylus cichlidarum* in the Mexican highlands. *Veterinary Parasitology* 235: 37-40.
- GIOIA I., CORDEIRO N. S. & ARTIGAS P. T. 1988. — *Urocleidoides astyanacis* n. sp. (Monogenea, Ancyrocephalinae) from freshwater characids of the genus *Astyanax*. *Memorias do Instituto Oswaldo Cruz* 83: 13-15. <https://doi.org/10.1590/S0074-02761988000100002>
- GOLDBERG S. R., BURSEY C. R., SALGADO-MALDONADO G., BÁEZ-VALÉ R. & CAÑEDA-GUZMÁN C. 2002. — Helminth parasites of six species of anurans from Los Tuxtlas and Catemaco Lake, Veracruz, México. *Southwestern Naturalist* 47: 293-299.
- GÓMEZ DEL PRADO M. C. 1977. — *Estudio de algunos monogéneos y tremátodos parásitos de peces de la Bahía de Zihuatanejo, Guerrero*. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 95 p.
- GÓMEZ DEL PRADO M. C. 2012. — *Parasitofauna de peces del género Paralabrax (Pisces: Serranidae) en las costas del noreste de México*. Ph. D. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 362 p.
- GÓMEZ DEL PRADO R. M. C. & EUZET L. 1997. — *Quadritestis almehensis* n. g., n. sp. (Monogenea: Monocotylidae, Quadritestinae n. subfam.) gill parasite of *Rhinoptera steindachneri* (Myliobatiformes: Rhinopteridae) from the Pacific coast of Baja California Sur (Mexico) in *III International Symposium on Monogenea. Academy of Sciences of the Czech Republic, Praha*, 86 p.
- GÓMEZ DEL PRADO R. M. C. & EUZET L. 1999. — New species of *Spinuris* (Monogenea: Monocotylidae) from *Zapteryx exasperata* (Elasmobranchii: Rhinobatidae) from Baja California Sur, Mexico. *Journal of Parasitology* 85: 705-708.
- GONZÁLEZ-SOLÍS D. & SÁNCHEZ-CEBALLOS L. D. 2012. — Metazoarios parásitos de la chihua, *Eugerres plumieri* (Perciformes, Gerreidae) en la Bahía de Chetumal y lagunas adyacentes, Quintana Roo, México, in DEL MORAL-FLORES L. F., MARTÍNEZ-PÉREZ J. A., FRANCO-LÓPEZ J., RAMÍREZ-VILLALOBOS A. J. & TELLO-MUSI J. L. (eds), *Investigación Ictiológica en México, Temas Selectos en honor del Dr José Luis Castro Aguirre*. Universidad Nacional Autónoma de México, Facultad de Estudios Superiores Iztacala y Sociedad Ictiológica Mexicana, Mexico City: 75-87.
- GOPAR-MERINO L. F. 2002. — *Helminthos parásitos del "cuatete" *Ariopsis guatemalensis* Gunther, 1864 (Pisces: Ariidae), en la Laguna de Tres Palos, Acapulco, México*. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 73 p.
- GOTO S. 1894. — Studies on the ectoparasitic trematodes of Japan. *Journal of the College of Science, Imperial University of Tokyo* 8: 1-273.
- GRANO-MALDONADO M., ROQUE A., AGUIRRE H. & FAJER-ÁVILA E. J. 2011. — Egg morphology, larval development and description of the oncomiracidium of *Heterobothrium ecuadori* (Monogenea: Diclidophoridae) parasitising the bullseye pufferfish, *Sphoeroides annulatus*. *Helminthologia* 48: 5-55. <https://doi.org/10.2478/s11687-011-0009-3>
- GUAJARDO-MARTÍNEZ G. 1984. — Preliminary survey of parasites of Cuatro Ciénegas, Coahuila, Mexico. *Journal of the Arizona Academy of Science* 19: 8-83.
- GUAJARDO-PÉREZ E. M. 1988. — *Metazoarios ectoparásitos del bagre de canal (Ictalurus punctatus Rafinesque, 1818) cultivados en la Piscifactoría Salinillas, Anahuac, Nuevo León y Centro Acuícola Vicente Guerrero, Abasco, Tamaulipas, México*. M. Sc. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, Monterrey, Nuevo León, Mexico, 163 p.
- HARGIS W. J. 1955. — Monogenetic Trematodes of Gulf of Mexico Fishes. Part V. The Superfamily Capsalioidea. *Transactions of the American Microscopical Society* 74: 203-225.
- HARGIS W. J. 1956a. — Monogenetic Trematodes of Gulf of Mexico Fishes. Part XII. The Family Gastrocotylidae Price, 1943. *Bulletin of Marine Science* 6: 28-43.
- HARGIS W. J. 1956b. — Monogenetic Trematodes of Gulf of Mexico Fishes. Part X. The Family Microcotylidae Taschenberg, 1879. *Transactions of the American Microscopical Society* 75: 436-453.
- HARGIS W. J. 1956c. — Monogenetic trematodes of Gulf of Mexico fishes. Part XI. The family Microcotylidae Taschenberg, 1859. (continued). *Proceedings of the Helminthological Society of Washington* 32: 153-172.
- HARGIS W. J. 1957. — Monogenetic trematodes of Gulf of Mexico Fishes. Part XIII. The Family Gastrocotylidae Price, 1943 (Continued). *Transactions of the American Microscopical Society* 76: 11-27.
- HARGIS W. J. 1959. — Systematic notes on the Monogenetic Trematodes. *Proceedings of the Helminthological Society of Washington* 26: 14-31.
- HAYWARD C. J. & ROHDE K. 1999a. — Revision of the monogenean subfamily Thoracocotylinae Price, 1936 (Polyopisthocotylea: Thoracocotylidae), with description of a new species of the genus *Pseudothoracocotyla* Yamaguti, 1963. *Systematic Parasitology* 44: 157-169.
- HAYWARD C. J. & ROHDE K. 1999b. — Revision of the monogenean subfamily Neothoracocotylinae Lebedev, 1969 (Polyopisthocotylea: Thoracocotylidae). *Systematic Parasitology* 44: 183-191.
- HAYWARD C. J. & ROHDE K. 1999c. — Revision of the Monogenean family Gotocotylidae (Polyopisthocotylea). *Invertebrate Taxonomy* 13: 425-460.
- HERNÁNDEZ-GÓMEZ R. E., VALENZUELA-CÓRDOBA I. & FRÍAS-FRÍAS R. A. 2011. — Registro del monogeneo *Dactylogyrus* sp. en la mojarra blanca *Eugerres mexicanus* (Perciformes: Gerreidae) en Tenosique, Tabasco, México. División Académica Multidisciplinaria de Los Ríos. Memorias de la Semana de Divulgación y Video Científico. Universidad Juárez Autónoma de Tabasco, Villahermosa, Mexico: 802-806.
- HERNÁNDEZ-MARTÍNEZ M. 1992. — Estudio helmintológico de tres especies de peces cultivados en dos centros acuícolas del Estado de Sonora, México. *Universidad y Ciencia* 9: 111-115.
- HERNÁNDEZ-OCAMPO D., PINEDA-LÓPEZ R., PONCE-PALAFIX J. T. & ARREDONDO-FIGUEROA J. L. 2012. — Parasitic helminth infection in tropical freshwater fishes of comercial fish farm,



- in Morelos State, Mexico. *International Journal of Animal and Veterinary Advances* 4: 338-343.
- HERNÁNDEZ-OLASCOAGA A. & GONZÁLEZ-SOLÍS D. 2006. — Estudio parasitológico de peces y mamíferos acuáticos de los estados de Quintana Roo y Tabasco, México, in *Memorias XVI Verano de la Investigación Científica de la UJAT*. Universidad Juárez Autónoma de Tabasco. Villahermosa, Tabasco, Mexico: 58-62.
- HERNÁNDEZ-VALE O., BUNCLEY-WILLIAMS L. & WILLIAMS JR. E. H. 2016. — New records of species of Macroalvitremitidae Yamaguti, 1963 (Monogenea) from Puerto Rico including one new genus and two new species. *Journal of Parasitology* 102: 114-130. <https://doi.org/10.1645/14-520>
- HERRERA-ROSALÉS E. 1951. — *Tremátodos de los quelonios de México*. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 69 p.
- HIDALGO-ESCALANTE E. 1958. — Hallazgo de una nueva especie de *Capsala*, *Capsala pricei* n. sp., (Trematoda: Monogenea) en un pez marino del Puerto de Mazatlán, Sinaloa, México. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Serie Zoológica* 29: 209-217.
- INOHUYE-RIVERA R. B. 1995. — *Helmintofauna de cuatro especies de cabrillas del género Epinephelus Bloch, 1793 (Osteichthyes: Serranidae) en la costa sudoriental de Baja California Sur, México*. M. Sc. Thesis, Centro Interdisciplinario de Ciencias Marinas, Instituto Politécnico Nacional, La Paz, Baja California Sur, Mexico, 164 p.
- IRUEGAS-BUENTELLO F. J. 1979. — *Algunos tremátodos de la tortuga de agua dulce Trionyx spiniferum emoryi (Agassiz, 1857) del Estado de Nuevo León, México*. B. S. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, Monterrey, Nuevo León, México, 42 p.
- IRUEGAS-BUENTELLO F. J. 1999. — *Helmintos parásitos de peces comerciales de la Laguna Madre, San Fernando, Tamaulipas, México*. Ph. D. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, Monterrey, Nuevo León, Mexico, 217 p.
- IRUEGAS-BUENTELLO F., SALINAS-LÓPEZ N. & JIMÉNEZ-GUZMÁN F. 1991. — Nuevos registros de algunos tremátodos de la tortuga *Trionyx spiniferus emoryi* (Agassiz, 1857) y redescrpción de *Cephalogonimus vesicaudus* Nickerson, 1912. *Publicaciones Biológicas Instituto de Investigaciones Científicas Universidad Autónoma de Nuevo León* 5: 75-80.
- ISHII N. 1936. — Some new ectoparasitic trematodes of marine fishes. *Zoological Magazine* 48: 781-790. (In Japanese.)
- JIMÉNEZ-CORTÉS J. G. 2003. — *Comunidades de helmintos parásitos de los peces de la Presa Ignacio Allende, Guanajuato, México*. B. S. Thesis, Facultad de Estudios Superiores Iztacala, Universidad Nacional Autónoma de México, Los Reyes, Estado de México, Mexico, 96 p.
- JIMÉNEZ-GARCÍA I., VIDAL-MARTÍNEZ V. & LÓPEZ-JIMÉNEZ S. 2001. — Monogeneans in introduced and native Cichlids in México: evidence for transfer. *Journal of Parasitology* 87: 907-909. [https://doi.org/10.1645/0022-395\(2001\)087\[0907: MIIANC\] 2.0.CO;2](https://doi.org/10.1645/0022-395(2001)087[0907: MIIANC] 2.0.CO;2)
- JIMÉNEZ-GARCÍA I., VIDAL-MARTÍNEZ V., SABASFLORES D. & AGUIRRE-MACEDO L. 2002. — Seasonal occurrence of helminths in wild and experimental cichlid fish *Cichlasoma urophthalmus* in a tropical locality in Mexico, in: *Proceedings of the X International Congress of Parasitology*. Monduzzi Editore, Vancouver: 401-405.
- JOHNSTON T. H. 1929. — Remarks on the synonymy of certain tristomatid Trematode genera. *Transactions of the Royal Society of South Australia* 53: 71-78.
- JOHNSTON T. H. & TIEGS O. W. 1922. — New gyrodactylid trematodes from Australian fishes, together with a reclassification of the superfamily Gyrodactyloidea. *Proceedings of the Linnean Society of New South Wales* 47: 83-131.
- JUÁREZ-ARROYO J. & SALGADO-MALDONADO G. 1989. — Helmintos de la "lisa" *Mugil cephalus* Lin. en Topolobampo, Sinaloa, México. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 60: 279-298.
- JOGUNOORI W., KRITSKY D. C. & VENKATANARASIAH J. 2004. — Neotropical Monogeneoidea. 46. Three new species from the gills of introduced aquarium fishes in India, the proposal of *Heterotylus* n.g. and *Diaphorocleidus* n.g., and the reassignment of some previously described species of *Urocleidoides* Mizelle & Price, 1964 (Polyonchoinea: Dactylogyridae). *Systematic Parasitology* 58: 115-124. <https://doi.org/10.1023/B:SYPA.0000029422.16712.9a>
- KHIDR A. A. 1990. — Population dynamics of *Enterogyrus cichlidarum* (Monogenea: Ancyrocephalinae) from the stomach of *Tilapia* spp. in Egypt. *International Journal for Parasitology* 20: 741-747.
- KLASSEN G. J. & BEVERLEY-BURTON M. 1985. — *Ligictaluridus* Beverley-Burton, 1984 (Monogenea: Ancyrocephalinae) from catfishes (Siluriformes: Ictaluridae) in North America with redescrptions of the type species, *Ligictaluridus pricei* (Mueller, 1936), and three others. *Canadian Journal of Zoology* 63: 715-727.
- KOHN A. & SANTOS P. C. 1988. — First report of *Mazocraeoides georgei* Price, 1936 and *Mazocraeoides opisthonema* Hargis, 1955 in Brazil with new synonyms (Monogenea, Mazocraeidae). *Memorias do Instituto Oswaldo Cruz* 83: 437-440.
- KOHN A., COHEN S. C. & SALGADO-MALDONADO G. 2006. — Checklist of Monogenea parasite of freshwater and marine fishes, amphibians and reptiles from Mexico, Central America and Caribbean. *Zootaxa* 1289: 1-114.
- KOHN A., SANTOS P. C. & BAPTISTA-FARIAS M. F. 1992. — New host records and localities of some monogenea from Brazilian marine fishes with scanning electron microscopy of *Bicotylophora trachinoti* (MacCallum, 1921). *Memorias do Instituto Oswaldo Cruz* 87: 109-114.
- KORATHA K. J. 1955. — Studies on the monogenetic trematodes of the Texas coast. II. Description of species from marine fishes of Port Aransas. *Publications of the Institute of Marine Sciences, University of Texas* 4: 251-278.
- KRITSKY D. C. 2007. — *Heteropriapulius* nom. nov. (Monogeneoidea: Dactylogyridae) for *Heterotylus* Jogunoori, Kritsky & Venkatanarasiah, 2004, a junior homonym of *Heterotylus* Kirsch in Reitter, 1913 (Coleoptera: Curculionidae). *Systematic Parasitology* 68: 233-233. <https://doi.org/10.1007/s11230-007-9111-9>
- KRITSKY D. C. 2012a. — Revision of *Parancylodiscoides* Caballero y C. & Bravo-Hollis, 1961 (Monogeneoidea: Dactylogyridae), with a redescription of *P. longiphallus* (MacCallum, 1915) from the Atlantic spadefish *Chaetodipterus faber* (Broussonet) (Acanthuroidei: Ephippidae) in the Gulf of Mexico. *Systematic Parasitology* 81: 97-108. <https://doi.org/10.1007/s11230-011-9327-6>
- KRITSKY D. C. 2012b. — Dactylogyrids (Monogeneoidea: Polyonchoinea) parasitizing the gills of snappers (Perciformes: Lutjanidae): Revision of *Euryhaliotrema* with new and previously described species from the Red Sea, Persian Gulf, the eastern and Indo-west Pacific Ocean, and the Gulf of Mexico. *Zoologia* 29: 227-276. <https://doi.org/10.1590/S1984-46702012000300006>
- KRITSKY D. C. & BAKENHASTER M. D. 2011. — Monogeneoiden parasites of the gill lamellae of the sheepshead *Archosargus probatocephalus* (Walbaum) (Perciformes: Sparidae) from the Indian River Lagoon, Florida, with descriptions of four new species of *Euryhaliotrema* Kritsky & Boeger, 2002 (Dactylogyridae). *Systematic Parasitology* 78: 57-68. <https://doi.org/10.1007/s11230-010-9282-7>
- KRITSKY D. C. & BAKENHASTER M. D. 2016. — Redescription and New Host Records for *Parancylodiscoides macrobaculum* n. comb. (Monogeneoidea: Dactylogyridae) from Groupers (Serranidae: Epinephelinae) in the Gulf of Mexico. *Comparative Parasitology* 83: 260-264. <https://doi.org/10.1654/4817s.1>
- KRITSKY D. C. & BEVERLEY-BURTON M. 1986. — The status of *Pseudorhabdosynochus* Yamaguti, 1958, and *Cycloplectanum* Oliver, 1968 (Monogenea: Diplectanidae). *Proceedings of the Biological Society of Washington* 99: 17-20.
- KRITSKY D. C. & BOEGER W. A. 2002. — Neotropical Monogeneoidea. 41: New and previously described species of Dactylogyridae (Platyhelminthes) from the gills of marine and freshwater

- perciform fishes (Teleostei) with proposal of a new genus and a hypothesis on phylogeny. *Zoosystema* 24: 7-40.
- KRITSKY D. C. & FRITTS P. D. 1970. — Monogenetic trematodes from Costa Rica with the proposal of *Anacanthocotyle* gen. n. (Gyrodactylidae: Isoancistrinae). *Proceedings of the Helminthological Society of Washington* 37: 63-68.
- KRITSKY D. C. & LEIBY P. D. 1972. — Dactylogyridae: Monogenea from the freshwater fish *Astyanax fasciatus* in Costa Rica with descriptions of *Jainus hexops*, new species, *Urocleidoides costaricensis*, new combination, and *Urocleidoides heteroancistrum*, new combination. *Proceedings of the Helminthological Society of Washington* 39: 227-23.
- KRITSKY D. C. & MENDOZA-FRANCO E. 2003. — Neotropical Monogenea. 42. *Pavanelliella scaphiocotylus* sp. nov. (Dactylogyridae) from the nasal cavity of the Guatemalan chulin, *Rhamdia guatemalensis* (Siluriformes: Heptateridae), from a cenote of the Yucatán Peninsula, Mexico. *Comparative Parasitology* 70: 136-139. [https://doi.org/10.1654/15252647\(2003\)070\[0136:NM PSSH\]2.0.CO;2](https://doi.org/10.1654/15252647(2003)070[0136:NM PSSH]2.0.CO;2)
- KRITSKY D. C. & MENDOZA-FRANCO E. 2008. — Revision of *Aristocleidus* (Monogenea: Dactylogyridae), rediscovery of *Aristocleidus hastatus*, and description of *Aristocleidus lamothei* n. sp. from the Peruvian mojarra *Diapterus peruvianus* (Teleostei: Gerridae) in Mexico. *Revista Mexicana de Biodiversidad* 79S: 75-82.
- KRITSKY D. C. & THATCHER V. E. 1974. — Monogenetic trematodes (Monopisthocotylea, Dactylogyridae) from freshwater fishes of Colombia, South America. *Journal of Helminthology* 48: 59-66.
- KRITSKY D. C., BILQUEES F. M. & LEIBY P. D. 1972. — Studies on Monogenea of Pakistan. I. *Pseudochauhanella elongatus* sp. n. (Gastrocotylidae: Gastrocotylinae) from the gills of *Labeo rohita* (Ham.). *Proceedings of the Helminthological Society of Washington* 39: 231-233.
- KRITSKY D. C., NOBLE E. R. & MOSER M. 1978. — *Allencotyla pricei* sp. n. (Microcotyloidea: Heteraxinidae) from the Gills of the Pile Surperch, *Damalichthys vacca* (Girard), in Southern California. *Journal of Parasitology* 64: 45-48.
- KRITSKY D. C., VIDAL-MARTÍNEZ V. M. & RODRÍGUEZ-CANUL R. 1994. — Neotropical Monogenea. 19. Dactylogyridae of Cichlids (Perciformes) from the Yucatán Peninsula, with descriptions of three new species of *Sciadicoleithrum* Kritsky, Thatcher, and Boeger, 1989. *Journal of the Helminthological Society of Washington* 61: 26-33.
- KRITSKY D. C., MENDOZA-FRANCO E. & SCHOLZ T. 2000. — Neotropical Monogenea. 36. Dactylogyrids from the gills of *Rhamdia guatemalensis* (Siluriformes: Pimelodidae) from cenotes of Yucatan Peninsula, Mexico, with proposal of *Ameloblastella* gen. n. and *Aphanoblastella* gen. n. (Dactylogyridae). *Comparative Parasitology* 67: 76-84.
- KRITSKY D. C., GALLI P. & YANG T. 2007. — Dactylogyrids (Monogenea) parasitizing the gills of spinefoots (Teleostei, Siganidae): revision of *Tetrancistrum* Goto and Kikuchi, 1917, with descriptions of two new species from *Siganus* spp. of the Red Sea and Celebes. *Journal of Natural History* 41: 1513-1541. <https://doi.org/10.1080/00222930701452989>
- KRITSKY D. C., YANG T. & YUAN S. 2009a. — Dactylogyrids (Monogenea, Polyonchoinea) parasitizing the gills of snappers (Perciformes: Lutjanidae): Proposal of *Haliotrematoides* n. gen. and description of new and previously described species from marine fishes of the Red Sea, the eastern and Indo-west Pacific Ocean, Gulf of Mexico and Caribbean Sea. *Zootaxa* 1970: 1-51.
- KRITSKY D. C., MENDOZA-FRANCO E., BULLARD S. A. & VIDAL-MARTÍNEZ V. M. 2009b. — Revision of the amphiamerican *Neotetraonchus* Bravo-Hollis, 1968 (Monogenea: Dactylogyridae), with a description of *N. vegrandis* n. sp. from the gill lamellae of the blue sea catfish *Ariopsis guatemalensis* (Siluriformes: Ariidae) off the Pacific Coast of Mexico. *Systematic Parasitology* 74: 1-15. <https://doi.org/10.1007/s11230-009-9203-9>
- KRITSKY D. C., BOEGER W. A., MENDOZA-FRANCO E. & VIANNA R. T. 2013. — Neotropical Monogenea. 57. Revision and phylogenetic position of *Scleroductus* Jara & Cone, 1989 (Gyrodactylidae), with descriptions of new species from the Guatemalan chulin *Rhamdia guatemalensis* (Gunther) (Siluriformes: Heptapteridae) in Mexico and the barred sorubim *Pseudoplatystoma fasciatum* (Linnaeus) (Siluriformes: Pimelodidae) in Brazil. *Systematic Parasitology* 8: 1-15. <https://doi.org/10.1007/s11230-012-9387-2>
- KRITSKY D. C., BAKENHASTER M. D. & ADAMS D. H. 2015. — *Pseudorhabdosynochus* species (Monogenea, Diplectanidae) parasitizing groupers (Serranidae, Epinephelinae, Epinephelini) in the western Atlantic Ocean and adjacent waters, with descriptions of 13 new species. *Parasite* 22: 24. <https://doi.org/10.1051/parasite/2015024>
- KULWIÉC Z. 1927. — Untersuchungen an arten des genus *Dactylogyrus* Diesing. *Bulletin de l'Académie polonaise des Sciences et Lettres* 1-2: 113-144.
- KUHN J. 1829. — Description d'un nouvel epizoaire du genre *Polystomum* qui se trouve sur les branches de la petite rousette (*Squalus catulus*) suivie de quelques observation sur le *Distoma megastomum* et le *Cysticercus leporis variabilis* de Bremser. *Annales scientifiques de l'Observatoire de Paris* 2: 460-465.
- LAMARCK J. B. M. 1818. — Histoire naturelle des animaux sans vertèbres. Tome cinquième. Deterville/Verdière, Paris, 612 p.
- LAMOTHE-ARGUMEDO R. 1963a. — Estudio de algunos monogeneos y digeneos parásitos de peces del Pacífico mexicano. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 111 p.
- LAMOTHE-ARGUMEDO R. 1963b. — Tremátodos de los anfibios de México I. Sobre un nuevo género de la familia Polystomatidae Gamble, 1896, hallado en la vejiga urinaria de *Tomodactylus amulae* Gunther y *Bufo simus* Schmidt. *Revista de la Sociedad Mexicana de Historia Natural* 24: 73-88.
- LAMOTHE-ARGUMEDO R. 1966. — Monogéneos de peces I. Descripción de *Pseudochauhanella mexicana* n.sp. (Gastrocotylidae) parásito de *Sphyaena ensis* Jordan and Evermann. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 37: 129-134.
- LAMOTHE-ARGUMEDO R. 1967a. — Monogéneos de peces V. Redescription de *Tagia ecuadori* (Meserve, 1938) Sproston, 1946. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 38: 35-46.
- LAMOTHE-ARGUMEDO R. 1967b. — Monogéneos de peces III. *Polymicrocotyle manteri* gen., nov., sp., nov., (Microcotylinae) parásito de peces de la costa del Pacífico de México. *Bulletin of Marine Sciences* 17: 935-947.
- LAMOTHE-ARGUMEDO R. 1967c. — Monogéneos de peces IV. Descripción de *Bravocotyle sanblasensis* gen. nov., sp., nov., (Diclidophoridae), parásito de las branquias de *Cynoscion xanthulus* (Scianidae) de la costa Pacífica mexicana. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 38: 47-58.
- LAMOTHE-ARGUMEDO R. 1968. — Monogéneos de peces VI. *Caballeroctyla marielenae* sp., nov., (Monogenea: Capsalinae), parásito de las branquias de *Istiophorus greyi* Jordan and Hill, de Puerto Angel, Oaxaca, México. *Rivista di Parassitologia* 29: 171-184.
- LAMOTHE-ARGUMEDO R. 1969. — Monogéneos de peces VII. *Mexicotrema bychowskyi* gen., nov., et sp., nov., (Monogenea: Ancyrocephallinae) parásito de las branquias de *Centropomus nigriscens* de la Laguna de Chila, Oaxaca, México. *Parazitologicheskii Sbornik Akademii Nauk* 24: 146-155.
- LAMOTHE-ARGUMEDO R. 1970. — Monogéneos de peces II. Reporte de tres especies de Monogenea parásitas de las branquias de *Caranx hippos* del Pacífico mexicano y redescrípción de *Zeuxapta seriola* (Meserve, 1938) Price, 1962. *Revista de Biología Tropical* 16: 153-169.
- LAMOTHE-ARGUMEDO R. 1972. — Monogéneos de reptiles I. Redescription de cuatro especies de Monogenea (Polystomatidae) parásitos de la vejiga urinaria de tortugas de México. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 43: 1-15.



- LAMOTHE-ARGUMEDO R. 1973a. — Monogéneos de los anfibios de México V. Descripción de la larva de *Neodiplorchis scaphiopi* (Rodgers, 1941) Yamaguti, 1963. (Monogenea: Polystomatidae). *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 44: 9-14.
- LAMOTHE-ARGUMEDO R. 1973b. — Monogéneos de los anfibios de México IV. Redescrípción de *Neodiplorchis scaphiopi* (Rodgers, 1941) Yamaguti, 1963. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 44: 1-8.
- LAMOTHE-ARGUMEDO R. 1976. — Monogéneos de los anfibios de México VI. Redescrípción de *Polystoma naevius* Caballero y Zerecero, 1941. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 47: 1-8.
- LAMOTHE-ARGUMEDO R. 1980. — Monogéneos parásitos de peces VIII. Descripción de una nueva especie del género *Octomacrum* Müeller, 1934 (Monogenea: Discocotylidae). *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 51: 51-60.
- LAMOTHE-ARGUMEDO R. 1984. — Monogéneos de peces IX. Un género y especie nuevos de la familia Diclidophoridae del Golfo de California, México. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 55: 73-84.
- LAMOTHE-ARGUMEDO R. 1985. — Monogéneos de los anfibios de México VII. Hallazgo de *Pseudodiplorchis americanus* (Rodgers y Kuntz, 1940) Yamaguti, 1963 en Baja California Sur, México. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 56: 291-300.
- LAMOTHE-ARGUMEDO R. 1996. — Monogéneos de peces X. Especie nueva del género *Capsaloides*, parásito de *Tetrapturus audax* de Mazatlán, Sinaloa, México. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 67: 163-171.
- LAMOTHE-ARGUMEDO R. & GARCÍA-PRÍETO L. 1999. — Monogéneos de peces XIII. Una especie nueva del género *Probursata* (Heteraxinidae) del Pacífico mexicano. *Revista de la Sociedad Mexicana de Historia Natural* 49: 213-218.
- LAMOTHE-ARGUMEDO R. & JAIMES-CRUZ B. 1982. — Monogenea, in HULBERT S. H. & VILLALOBOS-FIGUEROA A. (eds), *Aquatic Biota of México, Central America and the West Indies*. San Diego State University, San Diego, California: 65-72.
- LAMOTHE-ARGUMEDO R. & PULIDO-FLORES G. 1997. — Monogéneos de Peces XI. *Pseudobicotylophora lopez-ochoterenai* n. sp. (Monogenoidea), parásita de *Trachinotus rhodopus* de la Bahía de Chamela, Jalisco, México. *Revista de la Sociedad Mexicana de Historia Natural* 47: 115-121.
- LAMOTHE-ARGUMEDO R. & PULIDO-FLORES G. 1998. — Monogéneos de peces XI. Hallazgo de *Tristomella laevis* y *Capsaloides sinuatus* (Monogenea: Capsalidae) en *Tetrapturus audax* en Mazatlán, Sinaloa, México. *Revista de la Sociedad Mexicana de Historia Natural* 48: 49-56.
- LAMOTHE-ARGUMEDO R., PÉREZ-PONCE DE LEÓN G. & GARCÍA-PRÍETO L. 1997a. — Helmintos parásitos de Animales Silvestres, in GONZÁLEZ-SORIANO E., DIRZO R. & VOGT R. C. (eds), *Historia Natural de Los Tuxtlas*. Instituto de Ecología, Universidad Nacional Autónoma de México – Comisión Nacional para el conocimiento y uso de la Biodiversidad, Mexico City: 387-394.
- LAMOTHE-ARGUMEDO R., GARCÍA-PRÍETO L., OSORIO-SARABIA D. & PÉREZ-PONCE DE LEÓN G. 1997b. — *Catálogo de la Colección Nacional de Helmintos*. Instituto de Biología, Universidad Nacional Autónoma de México y Comisión Nacional para el Conocimiento y Uso de la Biodiversidad, Mexico City, 211 p.
- LAMOTHE-ARGUMEDO R., ARANDA-CRUZ C. & PÉREZ-PONCE DE LEÓN G. 1998. — *Choricotyle leonilavazquezae* sp.n. (Monogenea: Diclidophoridae) parasitic on *Microlepidotus brevipinnis* (Osteichthyes: Haemulidae) from Chamela Bay, Jalisco, México. *Journal of the Helminthological Society of Washington* 65: 24-30.
- LÁZARO-CHÁVEZ E. 1985. — Análisis patológico de las alteraciones producidas por ectoparásitos en reproductores de tilapia *Sarotherodon hornorum* (Trewawas) y *Oreochromis mossambicus* (Peters). *Revista Latinoamericana de Acuicultura* 25: 25-32.
- LAYMAN E. M. 1930. — Parasitic worms of the fishes from Peter the Great Bay. *Bulletin of the Pacific Science Fisheries of Marine Research Station* 3: 1-120.
- LEBEDEV B. I. 1970. — The substiation of a new family of monogenetic flukes (Monogenoidea) and the description of *Camopia rachycentri* gen. sp. nov. *Zoologicheskii Zhurnal* 49: 665-672 (in Russian).
- LEBEDEV B. I. 1971. — The position of amphipolycotylous monogeneans in the system and classification of the subfamily Gastrocotylinae. *Parazitologiya* 5: 59-67. (In Russian).
- LEBEDEV B. I. 1984. — System of Monogenea of the suborder Gastrocotylinae, in MAMAEV B. L., DBORITKI B. A. & EROZENCIO Y. (eds), *Parasites of animals and plants*. Academy of Sciences of USSR, Vladivostok: 17-24. (In Russian).
- LEBEDEV B. I. 1986. — Monogenea. Suborden Gastrocotylinae. Ciencia. Leningrado 200p. (In Russian).
- LEIDY J. 1888. — Entozoa of the terrapin. *Proceedings of the Academy of Natural Sciences of Philadelphia* 18: 127-128.
- LEÓN-RÉGAGNON V., PÉREZ-PONCE DE LEÓN G. & GARCÍA-PRÍETO L. 1997. — Description of *Heteroplectanum oliveri* sp. n. (Monogenea: Diplectanidae) and comments on the helminth fauna of *Kyphosus elegans* (Perciformes: Kyphosidae) from Chamela Bay, Mexico. *Journal of the Helminthological Society of Washington* 64: 9-16.
- LEÓN-RÉGAGNON V., MARTÍNEZ-SALAZAR E. A., LAZCANO-VILLARREAL D. & ROSAS-VALDÉZ R. 2005. — Helminth parasites of four species of anurans from Nuevo León, Mexico. *Southwestern Naturalist* 50: 251-258. [https://doi.org/10.1894/0038-4909\(2005\)050\[0251:HPOFSO\]2.0.CO;2](https://doi.org/10.1894/0038-4909(2005)050[0251:HPOFSO]2.0.CO;2)
- LLEWELLYN J. A. 1941. — Revision of the monogenean family Diclidophoridae Fühmann, 1928. *Parasitology* 33: 416-430. <https://doi.org/10.1017/S0031182000024628>
- LIM H. S. L. & GIBSON D. I. 2009. — A new monogenean genus from an ehippid fish off Peninsular Malaysia. *Systematic Parasitology* 73: 13-25. <https://doi.org/10.1007/s11230-008-9167-1>
- LIM H. S. L., TIMOFEVA T. A. & GIBSON D. I. 2001. — Dactylogyridean monogeneans of the siluriform fishes of the OldWorld. *Systematic Parasitology* 50: 159-197. <https://doi.org/10.1023/A:1012237801974>
- LING M. E. 1962. — Notes on seven new species of monogenetic trematodes *Gyrodactylus* from freshwater fishes of China. *Acta Hydrobiologica Sinica* 12: 67-78.
- LINTON E. 1910. — Helminth Fauna of the Dry Tortugas. II, Trematodes. *Carnegie Institution of Washington Publications* 4: 11-98.
- LINTON E. 1940. — Trematodes from fishes mainly from the Woods Hole region Massachusetts. *Proceedings of the United States National Museum* 88: 1-172.
- LÓPEZ-JIMÉNEZ S. 2001. — Estudio Parasitológico de los peces de aguas dulces del estado de Tabasco. *Gaceta Regional Sigolfo* 3: 8-10.
- LOYA-CANCINO K. F. 2012. — *Diversidad de helmintos parásitos de Astyanax mexicanus (Teleostei: Characidae) en el Estado de Coahuila*. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 53 p.
- MACCALLUM G. A. 1913a. — *Thorathocotyle croceus* n. gen., n. sp. *Zentralblatt für Bakteriologie* 68: 335-337.
- MACCALLUM G. A. 1913b. — Further notes on the genus *Microcotyle*. *Zoologische Jahrbücher* 35: 389-402.
- MACCALLUM G. A. 1915. — Some new species of ecto-parasitic trematodes. *Zoologica* 1: 395-410.
- MACCALLUM G. A. 1917. — Some new forms of parasitic worms. *Zoopathologica* 1: 45-75.
- MACCALLUM G. A. 1918. — Notes on the genus *Telorchis* and other trematodes. *Zoopathologica* 1: 77-98.
- MACCALLUM G. A. 1919. — Studies on the Polystomidae. *Zoopathologica* 1: 101-120.
- MACCALLUM G. A. 1927. — A new ectoparasitic trematode, *Epi-bdella melleni*. *Zoopathologica* 1: 291-300.
- MACCALLUM G. A. & MACCALLUM W. G. 1913. — Four new species of *Microcotyle*, *M. pyragraphorus*, *macrouna*, *eueides*, and



- acanthophallus*. *Zoologische Jahrbücher, Abteilung Systematik* 34: 223-244.
- MAMAEV Y. L. 1972. — The description of a new monogenean from the subfamily Choricotylinae with some notes about the genus *Choricotyle* composition. *Trudy Biologo-Pochviennye Instituta Noboya Serie* 11: 155-162. (In Russian).
- MAMAEV Y. L. 1976. — The system and phylogeny of Monogeneans of the family Didicophoridae. *Proceedings of the Institute of Biology and Pedology, Academie of Sciences, USSR* 35: 57-80. (In Russian).
- MAMAEV Y. L. 1982. — A Monogenea of the subfamily Grubeinae Price, 1961 (Family Mazocraeidae). *Parazitologiya* 16: 457-62. (In Russian).
- MAMAEV Y. L. 1986. — The taxonomical composition of the family Microcotylidae Taschenberg, 1879 (Monogenea). *Folia Parasitologica* 33: 199-206.
- MAMAEV Y. L. 1987. — On the systematic position of the genus *Neoheterobothrium* Price, 1943 (Monogenea: Didicophoridae) in connection with the description of a new species *N. syacii* sp. n. *Parazitologiya* 21: 69-73.
- MAMAEV Y. L. 1990. — The systematical composition of the Family Heteraxinidae and other allied families of Monogenea. *Folia Parasitologica* 37: 225-230.
- MAMAEV Y. & BRASHOVJAN P. 1989. — *Syncoelicotylodes macruri* gen. et sp. nov., the first member of the subfamily Syncoelicotylinae (Microcotylidae, Monogenea) from a macrouriform fish. *Parazitologiya* 23: 532-536. (In Russian).
- MAMAEV Y. L. & EGOROVA G. P. 1977. — A description of *Sebasticotyle ochotense* ng, n. sp., a new monogenean from scorpion fishes and the erection of *Jaliscia* n. g. *Trudy Biologo-Pochovennogo Instituta (Paraziticheskie i svobodnozhivushchie chervi fauny Dal'nego Vostoka)* 47: 101-105. (in Russian).
- MAMAEV Y. L. & PARUKHIN A. M. 1981. — A new species of the genus *Helixaxine* and status of this genus in the system of Monogenea. *Zoologicheskii Zhurnal* 60: 1455-1460. (in Russian).
- MANTER H. W. 1938. — Two new monogenetic trematodes from Beaufort, N. C., in NEIVA A. (Ed.), *Livro Jubilar do Professor Travassos*. Instituto Oswaldo Cruz, Rio de Janeiro, Brazil: 293-298.
- MANTER H. W. & WALLING G. 1958. — A new genus of monogenetic trematodes (family Didicophoridae) from a New Zealand fish. *Proceedings of the Helminthological Society of Washington* 25: 45-47.
- MARTIN W. E. & MULTANI S. 1970. — Some helminths of the mudsucker fish, *Gillichthys mirabilis* Cooper. *Bulletin Southern California Academy of Sciences* 69: 161-168.
- MARTÍNEZ-AQUINO A. & AGUILAR-AGUILAR R. 2008. — Helminth parasites of the pupfish *Cyprinodon meeki* (Pisces: Cyprinodontiformes), an endemic freshwater fish from North-Central Mexico. *Helminthologia* 45: 48-51. <https://doi.org/10.2478/s11687-008-0008-1>
- MARTÍNEZ-AQUINO A., SALGADO-MALDONADO G., AGUILAR-AGUILAR R., CABAÑAS-CARRANZA G. & ORTEGA-OLIVARES M. P. 2004. — Helminth parasites of *Chapalichthys encaustus* (Pisces: Goodeidae), an endemic freshwater from Lake Chapala, Jalisco, Mexico. *Journal of Parasitology* 90: 889-890.
- MARTÍNEZ-AQUINO A., SALGADO-MALDONADO G., AGUILAR-AGUILAR R., CABAÑAS-CARRANZA G. & MENDOZA-PALMERO C. 2007. — Helminth parasite communities of *Characodon audax* and *C. lateralis* (Pisces: Goodeidae), endemic freshwater fishes from Durango, Mexico. *Southwestern Naturalist* 52: 125-130. [https://doi.org/10.1894/0038-4909\(2007\)52\[125:HPCOCA\]2.0.CO;2](https://doi.org/10.1894/0038-4909(2007)52[125:HPCOCA]2.0.CO;2)
- MARTÍNEZ-AQUINO A., MENDOZA-PALMERO C. A., AGUILAR-AGUILAR R. & PÉREZ-PONCE DE LEÓN G. 2014. — Checklist of helminth parasites of Goodeinae (Osteichthyes: Cyprinodontiformes: Goodeidae) an endemic subfamily of freshwater fishes from Mexico. *Zootaxa* 3856: 151-191. <https://doi.org/10.11646/zootaxa.3856.2.1>
- MCCAULEY J. E. & SMOKER W. W. 1969. — Two Didicophoran Trematodes (Monogenea) from Deep-Sea Fishes. *Journal of Parasitology* 55: 742-746.
- MÉNDEZ O., SALGADO-MALDONADO G., CASPETA-MANDUJANO J. M. & CABAÑAS-CARRANZA G. 2010. — Helminth parasites of some freshwater fishes from Baja California Sur, Mexico. *Zootaxa* 2327: 44-50.
- MÉNDEZ-GUEVARA K. 1995. — *Fauna helmintológica del rancho Leostomus xanthurus (Lacépède, 1802) en el Sistema lagunar de Alvarado, Ver., México*. B. S. Thesis, Facultad de Biología, Universidad Veracruzana, Xalapa, Veracruz, Mexico, 51 p.
- MÉNDEZ-VILLAGRÁN A. 1993. — *Contribución al estudio de los parásitos de la lisa, Mugil cephalus (Linnaeus, 1758) y la lebrancha, Mugil curema (Valenciennes, 1836) en la Laguna de Tamiahua, Veracruz, México*. B. S. Thesis, Facultad de Biología, Universidad Veracruzana, Tuxpan, Veracruz, 119 p.
- MENDOZA-CRUZ M., VALLES-VEGA I., LOZANO-COBO H., GÓMEZ DEL PRADO R. M. C. & CASTRO-MORENO P. N. 2013. — Parasite fauna of *Paranthias colonus* (Valenciennes, 1846) from El Sargento, Baja California Sur, México. *Neotropical Helminthology* 7: 13-28.
- MENDOZA-FRANCO E. 1998. — *Biogeografía del género Sciadicleithrum (Monogenea: Ancyrocephalinae), parásitos de ciclidos (Pisces: Cichlidae) neotropicales*. M. Sc. Thesis, Centro de Investigaciones y de Estudios Avanzados, Instituto Politécnico Nacional, Mérida, Yucatán, Mexico, 75 p.
- MENDOZA-FRANCO E. & VIDAL-MARTÍNEZ V. M. 2001. — *Salsuginus neotropicalis* n. sp. (Monogenea: Ancyrocephalinae) from the pike killifish *Belonesox belizanus* (Atheriniformes: Poeciliidae) from southeastern Mexico. *Systematic Parasitology* 48: 41-45.
- MENDOZA-FRANCO E. & VIDAL-MARTÍNEZ V. M. 2011. — First record of known endoparasitic species of *Pseudempleurosoma* Yamaguti, 1965 (Monogenoidea: Dactylogyridae) from tetraodontid and rachycentrid fish off the northern coast of the Yucatán Peninsula, Mexico. *Journal of Parasitology* 97: 1020-1025. <https://doi.org/10.1645/GE-2727.1>
- MENDOZA-FRANCO E. & VIOLANTE-GONZÁLEZ J. 2011. — Two new species of *Haliotrema* (Monogenoidea: Dactylogyridae) from *Cirrhitus rivulatus* (Perciformes: Cirrhitidae) from the Pacific Coast of Mexico. *Journal of Parasitology* 97: 800-804. <https://doi.org/10.1645/GE-2719.1>
- MENDOZA-FRANCO E., VIDAL-MARTÍNEZ V. M., SIMÁ R., RODRÍGUEZ-CANUL R. A., VIVAS-RODRÍGUEZ C. & SCHOLZ T. 1995. — Occurrence of *Sciadicleithrum mexicanum* Kritsky, Vidal-Martínez et Rodríguez-Canul, 1994 (Monogenea: Dactylogyridae) in the cichlid *Cichlasoma urophthalmus* from a flooded quarry in Yucatan, Mexico. *Memorias do Instituto Oswaldo Cruz* 90: 319-324. <https://doi.org/10.1590/S0074-02761995000300001>
- MENDOZA-FRANCO E., SCHOLZ T. & VIDAL-MARTÍNEZ V. M. 1997. — *Sciadicleithrum meekii* sp. n. (Monogenea: Ancyrocephalinae) from the gills of *Cichlasoma meeki* (Pisces: Cichlidae) from cenotes (sinkholes) of the Yucatan Peninsula, Mexico. *Folia Parasitologica* 44: 205-208.
- MENDOZA-FRANCO E., SCHOLZ T., VIVAS-RODRÍGUEZ C. & VARGAS-VÁZQUEZ J. 1999. — Monogeneans of freshwater fishes from cenotes (sinkholes) of the Yucatan Peninsula, Mexico. *Folia Parasitologica* 46: 267-273.
- MENDOZA-FRANCO E., VIDAL-MARTÍNEZ V. M., AGUIRRE-MACEDO L., RODRÍGUEZ-CANUL R. & SCHOLZ T. 2000. — Species of *Sciadicleithrum* (Dactylogyridae: Ancyrocephalinae) of cichlid fishes from southeastern Mexico and Guatemala: New morphological data and host and geographical records. *Comparative Parasitology* 67: 85-91.
- MENDOZA-FRANCO E., SCHOLZ T. & CABAÑAS-CARRANZA G. 2003. — *Guavinella tropica* n. gen., n. sp. (Monogenea: Dactylogyridae) from the Gills of the Bigmouth Sleeper, *Gobiomorus dormitor* (Perciformes: Eleotridae), from Mexico. *Comparative Parasitology* 70: 26-31.
- MENDOZA-FRANCO E., KRITSKY D. C., VIDAL-MARTÍNEZ V. M., SCHOLZ T. & AGUIRRE-MACEDO M. L. 2004. — Neotropical Monogenoidea. 45. Revision of *Diplectanocotyla* Yamaguti, 1953 (Diplectanidae) with redescription of *Diplectanocotyla megalopis*

- Rakotofiringa and Oliver, 1987 on Atlantic tarpon, *Megalops atlanticus* Cuvier and Valenciennes, from Nicaragua and Mexico. *Comparative Parasitology* 71: 158-165.
- MENDOZA-FRANCO E., VIOLANTE-GONZÁLEZ J. & VIDAL-MARTÍNEZ V. M. 2006. — A new diplectanid (Monogenea) genus and species from the gills of the black snook, *Centropomus nigrescens* (Perciformes: Centropomidae) of the Pacific coast of Mexico. *Journal of Parasitology* 92: 48-485. <https://doi.org/10.1645/GE-3538.1>
- MENDOZA-FRANCO E., ROCHE D. G. & TORCHIN M. E. 2008a. — New species of *Diplectanum* (Monogenea: Diplectanidae), and proposal of a new genus of the Dactylogyridae from the gills of gerreid fishes (Teleostei) from Mexico and Panama. *Folia Parasitologica* 55: 171-179.
- MENDOZA-FRANCO E., VIOLANTE-GONZÁLEZ J. & VIDAL-MARTÍNEZ V. M. 2008b. — New species of *Rhabdosynochus* Mizelle and Blatz, 1941 (Monogenea: Diplectanidae) from the gills of centropomid fishes (Teleostei) off the Pacific coast of Mexico. *Journal of Parasitology* 94: 28-35. <https://doi.org/10.1645/GE-1241.1>
- MENDOZA-FRANCO E., VIOLANTE-GONZÁLEZ J. & ROCHE D. G. 2009a. — Interoceanic occurrence of species of *Aristocleidus* Mueller, 1936 (Monogenea: Dactylogyridae) parasitizing the gills of gerreid fishes in the Neotropics. *Parasitology Research* 105: 703-708. <https://doi.org/10.1007/s00436-009-1442-9>
- MENDOZA-FRANCO E., REINA G. & TORCHIN M. E. 2009b. — Dactylogyrids (Monogenea) parasitizing the gills of *Astyanax* spp. (Characidae) from Panama and Southeast Mexico, a new species of *Diaphorocleidus* and proposal for *Characithecium* n. gen. *Journal of Parasitology* 95: 46-55. <https://doi.org/10.1645/GE-1592.1>
- MENDOZA-FRANCO E., REYES-LIZAMA C. & GONZÁLEZ-SOLÍS D. 2009c. — *Haliotrematoides* spp. (Monogenea: Dactylogyridae) infect the gills of grunts (Perciformes: Haemulidae) from the southern coast of Quintana Roo, Mexico. *Journal of Parasitology* 95: 1360-1363. <https://doi.org/10.1645/GE-1893.1>
- MENDOZA-FRANCO E., VIOLANTE-GONZÁLEZ J. & ROJAS-HERRERA A. A. 2011. — Six new and one previously described species of *Pseudorhabdosynochus* (Monogenea, Diplectanidae) infecting the gills of groupers (Perciformes, Serranidae) from the Pacific coasts of Mexico and Panama. *Journal of Parasitology* 97: 20-35. <https://doi.org/10.1645/GE-2716.1>
- MENDOZA-FRANCO E., CASPETA-MANDUJANO J. M. & SALGADO-MALDONADO G. 2012. — Primer reporte de *Heteropriapulius* sp. (Platelmintos, Monogenea) infectando al pez diablo *Pterygoplichthys pardalis* (Siluriformes, Loricariidae) introducido en la cuenca del Río Lacantún de la Reserva de la Biosfera Montes Azules, Chiapas, México. *Jaina* 23: 1-6.
- MENDOZA-FRANCO E., CASPETA-MANDUJANO J. M. & SALGADO-MALDONADO G. 2013a. — New species of *Cacatuocotyle* (Monogenea, Dactylogyridae) parasitizing the anus and the gill lamellae of *Astyanax aeneus* (Pisces, Ostariophysi: Characidae) from the Río Lacantún basin in the Biosphere Reserve of Montes Azules, Chiapas, Mexico. *Parasitology Research* 112: 199-205. <https://doi.org/10.1007/s00436-012-3126-0>
- MENDOZA-FRANCO E., DEL RÍO-RODRÍGUEZ R. E. & ROSADO-TUN M. C. 2013b. — Monogeneans (Platyhelminthes) from the gill lamellae of the spotted sea trout, *Cynoscion nebulosus* (Perciformes, Sciaenidae), from the western coast of the Yucatan Peninsula, Mexico, with redescription of *Diplectanum bilobatus* Hargis, 1955 (Diplectanidae). *Parasitology Research* 112: 2831-2838. <https://doi.org/10.1007/s00436-013-3454-8>
- MENDOZA-FRANCO E., TAPIA-OSORIO M. & CASPETA-MANDUJANO J. M. 2015a. — Two new species of *Aristocleidus* (Monogenea) from the gills of the Mexican mojarra *Eugerres mexicanus* (Perciformes, Gerreidae) from southwestern Mexico. *Parasite* 22: 1-6. <https://doi.org/10.1051/parasite/2015033>
- MENDOZA-FRANCO E., CASPETA-MANDUJANO J. M., SALGADO-MALDONADO G. & MATAMOROS W. A. 2015b. — Two new species of *Urocleidoides* Mizelle et Price, 1964 (Monogenea) from the gill lamellae of profundulids and poeciliids from Central America and southern Mexico. *Folia Parasitologica* 62: 069. <https://doi.org/10.14411/fp.2015.059>
- MENDOZA-GARFIAS B. & PÉREZ-PONCE DE LEÓN G. 1998. — Microcotilidos (Monogenea: Microcotylidae) parásitos de peces marinos de la Bahía de Chamela, Jalisco, México. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 69: 139-153.
- MENDOZA-GARFIAS B., GARCÍA-PIETO L. & PÉREZ-PONCE DE LEÓN G. 1996. — Helminths of the "acumara" *Algansea lacustris* in el Lago de Pátzcuaro, Michoacán, México. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 67: 77-88.
- MENDOZA-PALMERO C. 2007. — *Monogeneos parásitos de peces de la subfamilia Goodeinae (Pisces: Cyprinodontiformes) con un análisis de su distribución geográfica*. M. Sc. Thesis, Instituto de Biología, Universidad Nacional Autónoma de México, Mexico City, 82 p.
- MENDOZA-PALMERO C. & AGUILAR-AGUILAR R. 2008. — Record of *Urocleidoides vaginoclastrum* Jogunoori, Kritsky and Venkatanarasaiah, 2004 (Monogenea: Dactylogyridae) from a freshwater fish in Mexico. *Parasitology Research* 103: 1235-1236. <https://doi.org/10.1007/s00436-008-1119-9>
- MENDOZA-PALMERO C., ESPINOSA-PÉREZ H. & SALGADO-MALDONADO G. 2007. — Helminths parásitos de peces dulceacuícolas, in LOT-HELGUERAS A. (ed.), *Guía Ilustrada de la Cantera Oriente: Caracterización ambiental e inventario biológico*. Coordinación de la Investigación Científica, Secretaría Ejecutiva de la Reserva Ecológica del Pedregal de San Ángel de Ciudad Universitaria, Universidad Nacional Autónoma de México, Mexico City: 179-191.
- MENDOZA-PALMERO C., SERENO-URIBE A. & SALGADO-MALDONADO G. 2009. — Two new species of *Gyrodactylus* Von Nordman, 1832 (Monogenea: Gyrodactylidae) parasitizing *Girardinichthys multiradiatus* (Cyprinodontiformes: Goodeidae), an endemic freshwater fish from Central Mexico. *Journal of Parasitology* 95: 315-318. <https://doi.org/10.1645/GE-1761.1>
- MENDOZA-PALMERO C., BLASCO-COSTA I., HERNÁNDEZ-MENA D. & PÉREZ-PONCE DE LEÓN G. 2017. — *Parasciadicleithrum octofasciatum* n. gen., n. sp. (Monogenea: Dactylogyridae), parasite of *Rocio octofasciata* (Regan) (Cichlidae: Perciformes) from Mexico characterised by morphological and molecular evidence. *Parasitology International* 66: 152-162. <https://doi.org/10.1016/j.parint.2017.01.006>
- MESERVE F. G. 1938. — Some monogenetic trematodes from the Galapagos Islands and the neighboring Pacific. *Allan Hancock Pacific Expeditions* 2: 31-73.
- MILLEMANN E. R. 1956. — Notes on the genus *Hexostoma* (Monogenea: Hexostomatidae) with a redescription of *H. euthynni* Meserve, 1938. *Journal of Parasitology* 42: 316-319.
- MIZELLE J. D. 1936. — New Species of Trematodes from the Gills of Illinois Fishes. *American Midland Naturalist* 17: 785-806.
- MIZELLE J. D. 1938. — Comparative studies on trematodes (Gyrodactyloidea) from the gills of North American fresh-water fishes. *Illinois Biological Monographs* 17: 1-81.
- MIZELLE J. D. 1941. — Studies on Monogenetic Trematodes. V. Tetraonchinae of the Stump-Knocker Sunfish, *Eupomotis microlophus* (Guenther). *American Midland Naturalist* 26: 98-104.
- MIZELLE J. D. & ARCADI J. D. 1945. — Studies on Monogenetic trematodes. XIII. *Urocleidus seculus*, a new species of Tetraonchinae from the viviparous top minnow, *Gambusia affinis* (Baird & Girard). *Transactions of the American Microscopical Society* 64: 293-296.
- MIZELLE J. D. & BLATZ V. 1941. — Studies on monogenetic trematodes. VI. Two new dactylogyrid genera from Florida fishes. *American Midland Naturalist* 26: 105-109.
- MIZELLE J. D. & CRONIN J. P. 1943. — Studies on monogenetic trematodes. X. Gill parasites from Reelfoot Lake fishes. *American Midland Naturalist* 30: 196-222.
- MIZELLE J. D. & HUGHES R. C. 1938. — The North American fresh-water Tetraonchinae. *American Midland Naturalist* 20: 341-353.
- MIZELLE J. D. & KRITSKY D. C. 1969. — Studies on Monogenetic trematodes. XL. New species from marine and freshwater fishes. *American Midland Naturalist* 82: 417-428.



- MIZELLE J. D. & PRICE C. E. 1964. — Studies on monogenetic trematodes. XXVII. Dactylogyrid species with the proposal of *Urocleidoides* gen. n. *Journal of Parasitology* 50: 579-584.
- MIZELLE J. D., STOKELY P. S., JASKOSKI B. J., SEAMSTER A. P. & MONACO L. H. 1956. — North American freshwater Tetraonchidae. *American Midland Naturalist* 55: 162-179.
- MOLNAR K., HANEK G. & FERNANDO C. H. 1974. — Ancyrocephalids (Monogenea) from Freshwater Fishes of Trinidad. *Journal of Parasitology* 60: 914-920.
- MONACO L. H., WOOD R. A. & MIZELLE J. D. 1954. — Studies on monogenetic trematodes. XVI. Rhamocercinae, a new subfamily of Dactylogyridae. *American Midland Naturalist* 52: 129-132.
- MONKS S., PULIDO-FLORES G., BAUTISTA-HERNÁNDEZ C. E., ALEMÁN-GARCÍA B., FALCÓN-ORDAZ J. & GAYTÁN-OYARZÚN J. C. 2013. — El uso de helmintos parásitos como bioindicadores en la evaluación de la calidad del agua: Lago de Tecocomulco vs. Laguna de Metztlán, Hidalgo, México, in PULIDO-FLORES G. & MONKS S. (eds), A Estudios científicos en el estado de Hidalgo y zonas aledañas, Volumen II. Zea E-Books. Book 16: 25-34.
- MONTERO E. F., AZNAR F. J., FERNÁNDEZ M. & RAGA J. A. 2003. — *Pseudoallencotylya* gen. nov., a new genus for *Allencotylya pricei* (Kritsky, Noble et Moser, 1978) (Monogenea: Heteraxinidae), with a key to the genera of Heteraxininae. *Folia Parasitologica* 50: 43-47.
- MONTOTOYA-MENDOZA J. 2009. — *Ecología de Helmintos parásitos de peces marinos de Alvarado, Veracruz, México*. Ph. D. Thesis, Instituto de Biología, Universidad Nacional Autónoma de México, Mexico City, 138 p.
- MONTOTOYA-MENDOZA J., SALGADO-MALDONADO G. & MENDOZA-PALMERO C. 2008. — Monogenean parasites of Carangidae and Sciaenidae marine fish on the Alvarado coast, Veracruz, Mexico, south Gulf of Mexico. *Zootaxa* 1843: 47-56.
- MONTOTOYA-MENDOZA J., JIMÉNEZ-BADILLO L., SALGADO-MALDONADO G. & MENDOZA-FRANCO E. F. 2014a. — Helminth parasites of the Red Snapper, *Lutjanus campechanus* (Perciformes: Lutjanidae) from the Reef Santiaguillo, Veracruz, Mexico. *Journal of Parasitology* 100: 868-872. <https://doi.org/10.1645/13-429.1>
- MONTOTOYA-MENDOZA J., JIMÉNEZ-BADILLO M. L. & SALGADO-MALDONADO G. 2014b. — Helminths of *Ocyurus chrysurus* from coastal reefs in Veracruz, Mexico. *Revista Mexicana de Biodiversidad* 85: 957-960. <https://doi.org/10.7550/rmb.43343>
- MONTOTOYA-MENDOZA J., CASTAÑEDA-CHÁVEZ M. R. & LANGO-REYNOSO F. 2015. — Helminths of sheepshead, *Archosargus probatocephalus* (Pisces: Sparidae) from Alvarado, Veracruz, Mexico. *Global Journal of Biology, Agriculture and Health Sciences* 4: 45-47.
- MONTOTOYA-MENDOZA J., LANGO-REYNOSO F. & CASTAÑEDA-CHÁVEZ M. R. 2016. — Monogéneos parásitos de *Oreochromis* spp., en punto de venta. *Revista Mexicana de Ciencias Agrícolas* 7: 949-952.
- MORA-BONILLA A. 2010. — *Comunidades de helmintos parásitos de carácidos* (Teleostei: Characidae) en México. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 87 p.
- MORALES-SOSA A. 2008. — *Helmintofauna de Petenia splendida* (Osteichthyes: Cichlidae) en algunas localidades dulceacuícolas de México. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 105 p.
- MORAVEC F., VIDAL-MARTÍNEZ V. M., VARGAS-VÁZQUEZ J., VIVAS-RODRÍGUEZ C., GONZÁLEZ-SOLÍS D., MENDOZA-FRANCO E., SIMA R. & GÜEMEZ J. 1997. — Helminth parasites of *Epinephelus morio* (Pisces: Serranidae) of the Yucatán Peninsula, southeastern Mexico. *Folia Parasitologica* 44: 255-266.
- MOSER M. & HALDORSON L. 1982. — Parasites of two species of surfperch (Embiotocidae) from seven Pacific coast locales. *Journal of Parasitology* 68: 733-735.
- MÚGICA-RUIZ E. & CASPETA-MANDUJANO J. M. 2009. — Helmintos parásitos de *Astyanax aeneus* del Río Cuautla. *Inventio* 12: 57-60.
- MUELLER J. F. 1934. — Parasites of Oneida Lake. Part IV. Additional notes on parasites of Oneida Lake fishes, including description of new species. *Roosevelt wild life annals of the Roosevelt Wild Life Forest Experiment Station of the New York State College of Forestry at Syracuse University* 7: 335-373.
- MUELLER J. F. 1936a. — Studies on North American Gyrodactyloidea. *Transactions of the American Microscopical Society* 55: 55-72.
- MUELLER J. F. 1936b. — New gyrodactyloid trematodes from North American fishes. *Transactions of the American Microscopical Society* 55: 457-464.
- MUELLER J. F. 1937. — Further studies on North American Gyrodactyloidea. *American Midland Naturalist* 18: 207-219.
- MUELLER J. F. & VAN CLEAVE H. J. 1932. — Parasites of Oneida Lake fishes. part II. Descriptions of new species and some general Taxonomic considerations, especially concerning the trematoda family Heterophyidae. *Roosevelt Wild Life Annals* 3: 79-137.
- MÜLLER O. F. 1776. — *Zoologiae Danicae prodromus: seu Animalium Daniae et Norvegiae indigenarum; characteres, nomina, et synonyma imprimis popularium*. Havniae, Denmark, 282 p.
- MURITH D. & BEVERLEY-BURTON M. 1984. — *Tetracleidus banghami* Mueller, 1936 (Monogenea: Ancyrocephalidae) from *Micropterus dolomieu* Lacépède (Pisces: Centrarchidae) in Ontario, Canada: anatomy, systematic position, and emended familial and generic diagnoses. *Canadian Journal of Zoology* 62: 992-997. <https://doi.org/10.1139/z84-139>
- MURITH D. & BEVERLEY-BURTON M. 1985. — *Salsuginus* Beverley-Burton, 1984 (Monogenea: Ancyrocephalidae) from Cyprinodontoides (Atheriniformes) in North America with descriptions of *Salsuginus angularis* (Mueller, 1934) Beverley-Burton, 1984 from *Fundulus diaphanus* and *Salsuginus heteroclitus* n. sp. *Canadian Journal of Zoology* 63: 703-714.
- NASIR P. & FUENTES-ZAMBRANO J. L. 1983. — Algunos trematodos monogenéticos Venezolanos. *Rivista di Parasitologia* 44: 335-380.
- NEIFAR L., EUZET L. & BEN HASSINE O. K. 2002. — Une nouvelle espèce de Monocotylidae (Monogenea) parasite branchial de *Rhinobatos cemiculus* (Euselachii, Rhinobatidae), avec proposition d'un nouveau genre et d'un amendement à la diagnose des Monocotylidae. *Zoosystema* 24: 699-706.
- NIETO-PÉREZ M. V. 1998. — *Fauna helmintológica de la lebrancha Mugil curema* (Valenciennes, 1836) en la Laguna de La Mancha, Municipio de Actopan, Veracruz, México. B. S. Thesis, Facultad de Biología, Universidad Veracruzana, Jalapa, Veracruz, Mexico, 60 p.
- NYBELYN O. 1924. — *Dactylogyrus vastator* n. sp. *Arkiv för Zoologi* 16: 1-2.
- OCAÑA-NAÑEZ E. M. 1992. — *Fauna helmintológica de los peces de hábitos bentónicos en la presa Manuel Moreno Torres* (Chicoasén) Chiapas, México. B. S. Thesis, Escuela de Biología, Instituto de Ciencias y Artes de Chiapas, Tuxtla Gutiérrez, Chiapas, Mexico, 129 p.
- OLIVA M. 1986. — Monogenea in marine fishes from Antofagasta, Chile, with description of *Caballerocotyla australis* n. sp. (Cap-salidae). *Revista Chilena de Historia Natural* 59: 87-94.
- OLIVER G. 1968. — Recherches sur les Diplectanidae (Monogenea) parasites de Téléostéens du Golfe du Lion I. Diplectaninae Monticelli, 1903. *Vie et Milieu* 19: 95-138.
- OLIVER G. 1984. — Description de deux nouvelles espèces du genre *Cycloplectanum* Oliver, 1968 (Monogenea, Monopisthocotylea, Diplectanidae). *Annales de Parasitologie humaine et comparée* 59: 31-39.
- OLIVER G. 1986. — *Cycloplectanum riouxi* n. sp., une nouvelle espèce de Diplectanidae (Monogenea, Monopisthocotylea) parasite d'*Epinephelus guaza* (Linnaeus, 1758) (Pisces, Serranidae). *Systematic Parasitology* 8: 317-322.
- OZAKI Y. 1935. — Studies on the frog trematode *Diplorchis ranae*. I. Morphology of the adult form with a review of the family Polystomatidae. *Journal of Science of the Hiroshima University* 3: 193-225.
- PAPERNA I. 1960. — Studies on monogenetic trematodes in Israel. 2. Monogenetic trematodes of cichlids. *Bamidgah* 12: 2-15.



- PAPERNA I. 1963. — *Enterogyrus cichlidarum* n. gen. n. sp. a monogenetic trematode parasitic in the intestine of a fish. *Bulletin of the Research Council of Israel Section B Zoology* 11: 183-187.
- PAPERNA I. 1968. — Monogenetic trematodes collected from freshwater fish in Ghana. Second report. *Bamidgeh* 20: 88-90.
- PAPERNA I. 1977. — The Monogenea of marine catfish, in VILLA R. B. (ed.), *Excerta Parasitológica en Memoria del Dr Eduardo Caballero y Caballero*. Instituto de Biología, UNAM, Mexico City, México: 99-116.
- PAPERNA I. 1979. — Monogenea of inland water fish in Africa. *Annales du Musée Royal de l'Afrique centrale* 226: 1-131.
- PAPERNA I. & THURSTON J. P. 1969. — Monogenetic trematodes collected from cichlid fish in Uganda; including the description of five new species of *Cichlidogyrus*. *Revue de Zoologie et de Botanique Africaines* 79: 15-33.
- PARADES-TRUJILLO A. I. 2010. — *Comunidades de parásitos en tres ciclidos (Perciformes) de la cuenca Grijalva, Chiapas, México*. B. S. Thesis, El Colegio de la Frontera Sur, San Cristóbal de las Casas, Chiapas, Mexico, 109 p.
- PARADES-TRUJILLO A., VELÁZQUEZ-ABUNADER I., TORRES-IRINEO E., ROMERO D. & VIDAL-MARTÍNEZ V. M. 2016. — Geographical distribution of protozoan and metazoan parasites of farmed Nile tilapia *Oreochromis niloticus* (L.) (Perciformes: Cichlidae) in Yucatán, México. *Parasites & Vectors* 9: 66. <https://doi.org/10.1186/s13071-016-1332-9>
- PARISELLE A. & EUZET L. 1995. — *Scutogyrus* gen. n. (Monogenea: Ancyrocephalidae) for *Cichlidogyrus longicornis* minus Dossou, 1982, *C. l. longicornis*, and *C. l. gravivaginus* Paperna and Thurston, 1969, with description of three new species parasitic on African cichlids. *Journal of the Helminthological Society of Washington* 62: 157-173.
- PARISELLE A. & EUZET L. 2009. — Systematic revision of dactylogyridae parasites (Monogenea) from cichlid fishes in Africa the Levant and Madagascar. *Zoosystema* 31 (4): 849-898. <https://doi.org/10.5252/z2009n4a6>
- PARONA C. & PERUGIA A. 1890. — Trematodi parassiti delle branchie dei pesci italiani. *Atti della Società Ligustica di Scienze Naturali e Geografiche* 1: 59-70.
- PARONA C. & PERUGIA A. 1896. — Sopra due nuove specie di trematodi parassiti delle branchie del *Brama rayi*. *Atti Società Ligustica di Scienze Naturali e Geografiche* 7: 135-138.
- PARRA-ROJAS L. G. 1983. — *Estudio de algunos monogéneos y tremátodos parásitos de reptiles de México*. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 141 p.
- PAYNE R. P. 1986. — *Lampanyctophilus wisneri* gen. et sp. n. (Monogenea: Didicliphoridae), a gill parasite of *Lampanyctus ritteri* (Mycophidae) from the Eastern Pacific and an emended description of *Myctophiphilus sprostonae* (Martin, 1973) comb. n. *Proceedings of the Helminthological Society of Washington* 53: 157-161.
- PAYNE R. P. 1987a. — Some didicliphorid Monogenea (Trematoda), including two new species, from marine fishes of the Eastern Pacific Ocean off California, USA and Baja California, Mexico. *Transactions of the American Microscopical Society* 106: 256-264.
- PAYNE R. P. 1987b. — Two new Monogenea (Macrovalvitrematidae) from Eastern Pacific Ocean fishes. *Proceedings of the Helminthological Society of Washington* 54: 169-174.
- PAYNE R. P. 1990. — Four new monogenea (Axinidae and Heteraxinidae) from Eastern Pacific Ocean fishes. *Journal of the Helminthological Society of Washington* 57: 93-103.
- PAYNE R. P. 1991. — *The Taxonomy, vertical distribution and zoogeography of some monogenea infecting eastern Pacific fishes*. Ph.D. Thesis, Faculty of the Graduate College, University of Nebraska, Lincoln, Nebraska, 283 p.
- PEARSE A. S. 1949. — Observations on flatworms and nemertean collected at Beaufort, N. C. *Proceedings of the United States National Museum* 100: 25-38.
- PECH D., VIDAL-MARTÍNEZ V. M., AGUIRRE-MACEDO L., GOLD-BOUCHOT G., HERRERA-SILVEIRA J., ZAPATA-PÉREZ O. & MARCOGLIESE D. J. 2009. — The checkered puffer (*Spheroideus testudineus*) and its helminths as bioindicators of chemical pollution in Yucatan coastal lagoons. *Science of the Total Environment* 407: 2315-2324.
- PÉREZ-PONCE DE LEÓN G. & CHOUDHURY A. 2010. — Parasite inventories and DNA-based taxonomy: Lessons from helminths of freshwater fishes in a megadiverse country. *Journal of Parasitology* 96: 236-244. <https://doi.org/10.1645/GE-2239.1>
- PÉREZ-PONCE DE LEÓN G. & GARCÍA-PRIETO L. 2001. — Diversidad de helmintos parásitos de vertebrados silvestres de México. *Biodiversitas* 6: 7-11.
- PÉREZ-PONCE DE LEÓN G. & MENDOZA-GARFIAS B. 1996. — Especie nueva de *Pterinotrema* (Monogenea: Pterinotrematidae) parásito de *Albula nemoptera* (Osteichthyes: Albulidae) de la bahía de Chamela, Jalisco. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 67: 173-181.
- PÉREZ-PONCE DE LEÓN G. & MENDOZA-GARFIAS B. 2000. — A new species of *Sprostoniella* Bychowsky and Nagibina, 1967 (Monogenea: Capsalidae) from *Chaetodipterus zonatus* (Osteichthyes: Ephippidae) in Chamela Bay, Mexico. *Journal of Parasitology* 86: 811-814.
- PÉREZ-PONCE DE LEÓN G., GARCÍA-PRIETO L., OSORIO-SARABIA D. & LEÓN-RÉGAGNON V. 1996. — *Listados Faunísticos de México VI. Helmintos parásitos de peces de aguas continentales de México*. Instituto de Biología, Universidad Nacional Autónoma de México, Mexico City: 100.
- PÉREZ-PONCE DE LEÓN G., LEÓN-RÉGAGNON V. & MENDOZA-GARFIAS B. 1997. — Análisis filogenético de la familia Pterinotrematidae (Platyhelminthes: Cercomeromorpha: Monogenea). *Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Série Zoología* 68: 193-205.
- PÉREZ-PONCE DE LEÓN G., GARCÍA-PRIETO L., MENDOZA-GARFIAS B., LEÓN-RÉGAGNON V., PULIDO-FLORES G., ARANDA-CRUZ C. & GARCÍA-VARGAS F. 1999. — *Listados Faunísticos de México IX. Biodiversidad de Helmintos parásitos de peces marinos y estuarinos de la Bahía de Chamela, Jalisco*. Instituto de Biología, Universidad Nacional Autónoma de México, Mexico City, 51 p.
- PÉREZ-PONCE DE LEÓN G., GARCÍA-PRIETO L. & ROSAS-VILLA C. 2000a. — Helminthofauna of *Opisthonema libertate* y *Harengula thrissina* (Osteichthyes: Clupeidae) de la bahía de Chamela, Jalisco, México. *Revista de Biología Tropical* 48: 759-763.
- PÉREZ-PONCE DE LEÓN G., GARCÍA-PRIETO L., LEÓN-RÉGAGNON V. & CHOUDHURY A. 2000b. — Helminth communities of native and introduced fishes in Lake Patzcuaro, Michoacán, Mexico. *Journal of Fish Biology* 57: 303-325.
- PÉREZ-PONCE DE LEÓN G., JIMÉNEZ-RUIZ A., MENDOZA-GARFIAS B. & GARCÍA-PRIETO L. 2001. — Helminth parasites of garter snakes and mud turtles from several localities of the Mesa Central of Mexico. *Comparative Parasitology* 68: 9-20.
- PÉREZ-PONCE DE LEÓN G., ROSAS-VALDEZ R., AGUILAR-AGUILAR R., MENDOZA-GARFIAS B., MENDOZA-PALMERO C., GARCÍA-PRIETO L., ROJAS-SÁNCHEZ A., BRIOSIO-AGUILAR R., PÉREZ-RODRÍGUEZ R. & DOMÍNGUEZ-DOMÍNGUEZ O. 2010. — Helminth parasites of freshwater fishes, Nazas River basin, northern Mexico. *Checklist* 6: 26-35.
- PÉREZ-PONCE DE LEÓN G., GARCÍA-PRIETO L. & MENDOZA-GARFIAS B. 2011. — Describing Parasite Biodiversity: The Case of the Helminth Fauna of Wildlife Vertebrates in Mexico, in GRILLO O. & VENORA G. (eds), *Changing Diversity in Changing Environment*. InTech, Rijeka, Croatia: 33-54.
- PÉREZ-PONCE DE LEÓN G., MENDOZA-GARFIAS G., ROSAS-VALDEZ R. & CHOUDHURY A. 2013. — New host and locality records of freshwater fish helminth parasites in river basins north of the Transmexican Volcanic Belt: another look at biogeographical patterns. *Revista Mexicana de Biodiversidad* 84: 556-562. <https://doi.org/10.7550/rmb.32525>
- PÉREZ-URBIOLA J. C. 1993. — *Monogéneos y tremátodos (Platyhelminthes) parásitos de Caulolatilus affinis* Gill, 1865 (Pisces: Branchiostegidae) del Canal Cerralvo, BCS, México. B. S. Thesis,

- Departamento de Biología Marina, Universidad Autónoma de Baja California Sur, La Paz, Baja California Sur, Mexico, 102 p.
- PÉREZ-URBIOLA J. C. 1995. — *Microhábitat de ectoparásitos marinos en *Caulolatilus affinis* Gill, 1865 (Osteichthyes: Malacanthidae) del Canal Cerralvo, BCS, México*. M. Sc. Thesis, Centro Interdisciplinario de Ciencias Marinas, Instituto Politécnico Nacional, La Paz, Baja California Sur, Mexico, 69 p.
- PERKINS E. M., DONELLAN S. C., BERTOZZI T., CHISHOLM L. A. & WHITTINGTON I. D. 2009. — Looks can deceive: Molecular phylogeny of a family of flatworms ectoparasites (Monogenea: Capsalidae) does not reflect current morphological classification. *Molecular Phylogenetics and Evolution* 52: 705-714.
- PIASECKI W., WIERZBICKA J. & KEMPTER J. 2000. — A new monogenean species parasitic on gills of bigmouth sole, *Hippoglossina stomata* Steindachner, 1876 from Southern California. *Acta Ichthyologica et Piscatoria* 30: 12-134.
- PINACHO-PINACHO C. D., PÉREZ-RUIZ M. A., SERENO-URIBE A. L., GARCÍA-VARELA M. & MARTÍNEZ-RAMÍREZ E. 2014. — Richness and similarity of helminth communities of the freshwater fish *Profundulus punctatus* (Pisces: Cyprinodontidae) from Oaxaca, Mexico. *Revista Mexicana de Biodiversidad* 85: 1129-1138. <https://doi.org/10.7550/rmb.41776>
- PINACHO-PINACHO C. D., GARCÍA-VARELA M., HERNÁNDEZ-ORTS J. S., MENDOZA-PALMERO C. A., SERENO-URIBE A. L., MARTÍNEZ-RAMÍREZ E., ANDRADE-GÓMEZ L., LÓPEZ-JIMÉNEZ A., HERNÁNDEZ-CRUZ E. & PÉREZ-PONCE DE LEÓN G. 2015. — Checklist of the helminth parasites of the genus *Profundulus* Hubbs, 1924 (Cyprinodontiformes, Profundulidae), an endemic family of freshwater fishes in Middle-American. *Zookeys* 523: 1-30. <https://doi.org/10.3897/zookeys.523.6088>
- PINEDA-LÓPEZ R., CARBALLO-CRUZ V., FUCUGAUCHI M. & GARCÍA-MAGAÑA L. 1985a. — Metazoarios parásitos de peces de importancia comercial de la Región de los Ríos, Tabasco, México. *Usumacinta* 1: 197-270.
- PINEDA-LÓPEZ R., ANDRADE-SALAS O., PÁRAMO-DELGADILLO S., TREJO-PÉREZ L., PÉREZ-MÉNDEZ M. A., ALMEYDA-ARTIGAS J., OSORIO-SARABIA D. & PÉREZ-PONCE DE LEÓN G. 1985b. — *Estudio del control sanitario de la piscifactoría Benito Juárez y en los vasos de las presas Malpaso y La Angostura, Chiapas*. Universidad Juárez Autónoma de Tabasco-Secretaría de Pesca, Mexico City, 309 p.
- PINEDA-LÓPEZ R., SALGADO-MALDONADO G., SOTO-GALERA E., HERNÁNDEZ-CAMACHO N., OROZCO-ZAMORANO A., CONTRERAS-ROBLEDO S., CABANAS-CARRANZA G. & AGUILAR-AGUILAR R. 2005. — Helminth parasites of viviparous fishes in Mexico, in GRIER H. & URIBE M. C. (eds), *Viviparous fishes. Genetics, Ecology and Conservation*. New Life Publications, Homestead, Florida, USA: 437-456.
- PORRAZ-ÁLVAREZ O. L. 2006. — *Diversidad de helmintos (Platyhelminthes; Monogenea) de algunas especies de peces marinos de Veracruz y de agua dulce de Hidalgo, México*. B. S. Thesis, Instituto de Ciencias Básicas e Ingeniería, Área Académica de Ingeniería, Universidad Autónoma del Estado de Hidalgo, Pachuca, Hidalgo, México, 122 p.
- POULIN R. 2016. — Greater diversification of freshwater than marine parasites of fish. *International Journal for Parasitology* 46: 275-279. <https://doi.org/10.1016/j.ijpara.2015.12.002>
- POULIN R., BESSON A. A., MORIN M. B. & RANDHAWA H. S. 2016. — Missing links: testing the completeness of host-parasite checklists. *Parasitology* 143: 114-122. <https://doi.org/10.1017/S0031182015001559>
- PRATT H. S. 1910. — *Monocotyle floridana*, a new monogenetic trematode. *Carnegie Institution of Washington Publications* 4: 3-9.
- PRICE C. E. 1967. — Proposal of *Synclathrium*, a new genus of the North American Monogenea. *Texas Journal of Science* 19: 175-183.
- PRICE C. E. & BUSSING W. 1968. — Monogenean parasites of Costa Rican fishes. II. Proposal of *Palombitrema heteroancistrum* n. gen., n. sp. *Proceedings of the Helminthological Society of Washington* 35: 54-54.
- PRICE C. E. & BUSSING W. 1967. — A Monogenean parasites of Costa Rican fishes. Part 1. Descriptions of two new species of *Cleidodiscus* Mueller, 1934. *Rivista di Parassitologia* 28: 81-86.
- PRICE C. E. & HENDERSON A. 1969. — Monogenean parasites of Mexican freshwater fishes I. Introductory remarks, with an account of the parasite genus *Dactylogyrus* Diesing, 1850. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 40: 195-204.
- PRICE C. E. & KIRK R. G. 1967. — First description of a monogenetic trematode from Malawi. *Revue de Zoologie et de Botanique africaines* 76: 137-143.
- PRICE E. W. 1938. — The monogenetic trematodes of Latin America, in NEIVA A. (ed.), *Livro Jubilar Professor Travassos*. Instituto Oswaldo Cruz, Rio de Janeiro, Brazil: 407-413.
- PRICE E. W. 1939a. — North American Monogenetic Trematodes. IV. The Family Polystomatidae (Polystomatoidea). *Proceedings of the Helminthological Society of Washington* 6: 80-92.
- PRICE E. W. 1939b. — North American monogenetic trematodes. III. The family Capsalidae (Capsaloidea). *Journal of the Washington Academy of Sciences* 29: 63-92.
- PRICE E. W. 1959. — Some new monogenetic trematodes from the gizzard shad, *Dorosoma cepedianum* (Le Sueur). *Journal of the Alabama Academy Science* 30: 9-10.
- PRICE E. W. 1960. — The giant marlin, *Makaira marlina* Jordan and Evermann, a new host for *Capsala pricei* (Hidalgo, 1959), with a review of the subfamily Capsalinae, in BRAVO-HOLLIS M., ZERECERO C., FLORES-BARROETA L., HIDALGO-ESCALANTE E. & WINTER H. A. (eds), *Libro Homenaje al Dr Eduardo Caballero y Caballero*. Secretaría de Educación Pública-Instituto Politécnico Nacional, Mexico City: 237-244.
- PRICE E. W. 1961a. — North American Monogenetic Trematodes. VIII. The Family Hexostomatidae. *Proceedings of the Helminthological Society of Washington* 28: 4-9.
- PRICE E. W. 1961b. — North American Monogenetic trematodes. IX. The Families Mazocraeidae and Plectanocotylidae. *Proceedings of the Biological Society of Washington* 74: 127-156.
- PRICE E. W. 1962a. — North American Monogenetic Trematodes. X. The Family Axinidae. *Proceedings of the Helminthological Society of Washington* 29: 1-18.
- PRICE E. W. 1962b. — North American monogenetic trematodes. XI. The family Heteraxinidae. *Journal of Parasitology* 48: 402-418.
- PULIDO-FLORES G. & MONKS S. 2005. — Monogenean parasites of some elasmobranchs (Chondrichthyes) from the Yucatán Peninsula, Mexico. *Comparative Parasitology* 72: 69-74. <https://doi.org/10.1654/4049>
- PULIDO-FLORES G. & MONKS S. 2008. — A new species of *Euzetia* (Monogenea: Monocotylidae) on the gills of *Rhinoptera bonasus* (Rhinopteridae) from Ciudad del Carmen, Campeche, Mexico. *Revista Mexicana de Biodiversidad* 79S: 83-88.
- PULIDO-FLORES G., MONKS S. & VIOLANTE-GONZÁLEZ J. 2015. — *Denarycotyle gardneri* n. gen., n. sp. (Monogenea: Monocotylidae: Euzetiinae), from the gills of *Rhinoptera steindachneri* (Rhinopteridae) from Acapulco, Guerrero, México. *Revista Mexicana de Biodiversidad* 86: 582-589. <https://doi.org/10.1016/j.rmb.2015.05.006>
- QUISPE-MAICA P. R. 2005. — *Estudio de las comunidades de metazoarios parásitos del pargo lunarejo *Lutjanus guttatus* (Steindachner, 1869) silvestre y cultivado en jaulas flotantes en el Estado de Nayarit*. M. Sc. Thesis, Unidad Académica de la Escuela Nacional de Ingeniería Pesquera, Universidad Autónoma De Nayarit, Tepic, México, 103 p.
- RÁBAGO-CASTRO J. L. 2010. — *Monitoreo y distribución de infecciones bacterianas y parasitarias en el cultivo del bagre *Ictalurus punctatus* en Tamaulipas*. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, 113 p.
- RÁBAGO-CASTRO J., SÁNCHEZ-MARTÍNEZ J. G., LOREDO-OSTI J., GÓMEZ-FLORES R., TAMEZ-GUERRA P. & RAMÍREZ-PFEIFFER C. 2011. — Temporal and spatial variations of ectoparasites on



- cage-reared channel catfish, *Ictalurus punctatus*, in Tamaulipas, Mexico. *Journal of the World Aquaculture Society* 42: 406-411.
- RÁBAGO-CASTRO J. L., SÁNCHEZ-MARTÍNEZ J. G., PÉREZ-CASTAÑEDA R., VÁZQUEZ-SAUCEDA M. A. L. & RUIZ-OROZCO G. 2014. — Chronic effects of a monogenean *Ligistiluridus floridanus* (Ancyrocephalidae) infection on channel catfish (*Ictalurus punctatus*) growth performance. *Acta Veterinaria Brno* 83: 83-87. <https://doi.org/10.2754/avb201483020083>
- RAKOTOFIRINGA S. & OLIVER G. 1987. — Révision du genre *Diplectanocotyla* Yamaguti, 1953 avec description d'une espèce nouvelle et création de la famille des Diplectanocotylidae nov. fam. (Monogenea, Monopisthocotylea). *Bulletin du Muséum national d'Histoire naturelle* 9: 333-339.
- RAKOTOFIRINGA S., OLIVER G. & LAMBERT A. 1987. — *Heteroplectanum* n. gen., un nouveau genre de Diplectanidae Bychowsky, 1957 (Monogenea, Monopisthocotylea), parasite de Téléostéens marins de Madagascar. *Bulletin du Muséum national d'Histoire naturelle* 9: 145-157.
- RAMALINGAM K. 1960. — On a new species of the genus *Heteromicrocotyle* (Monogenea: Microcotylidae) from the gills of *Caranx affinis* Rupp. *Journal of the Zoological Society of India* 12: 34-39.
- RAMÍREZ-LEZAMA J. 1995. — *Ictiopatología de las especies nativas de importancia comercial en la laguna de Amela, Tecmán, Colima*. M. Sc. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 158 p.
- RAMOS-ÁNGELES S. 1994. — *Helminths parasites of three species of fishes introduced to Lago de Páizcuaro, Michoacán, México*. B. S. Thesis, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, 74 p.
- RAMOS-GUERRA M. C. 1998. — *Helminths parasites of the curvina Sciaenops ocellata (Linnaeus), trucha pinta Cynoscion nebulosus (Cuvier) y trucha blanca Cynoscion arenarius (Ginsburg) de la Laguna Madre, Municipio de San Fernando, Tamaulipas*. M. Sc. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, Monterrey, Nuevo León, Mexico, 91 p.
- RAZO-MENDIVIL U., GARCÍA-VÁSQUEZ A. & RUBIO-GODOY M. 2016. — Spot the difference: Two cryptic species of *Gyrodactylus* von Nordmann, 1832 (Platyhelminthes: Monogenea) infecting *Astyanax aeneus* (Actinopterygii, Characidae) in Mexico. *Parasitology International* 65: 389-400. <https://doi.org/10.1016/j.parint.2016.05.009>
- RESÉNDEZ-MEDINA A. & SALVADORES M. L. 1983. — Contribución al conocimiento de la biología del pejelagarto *Lepisosteus tropicus* (Gill) y la tenguayaca *Petenia splendida* Günther, del Estado de Tabasco. *Biotica* 8: 413-426.
- RODGERS L. O. 1941. — *Diplorchis scaphiopi*, a new polystomatid monogenean fluke from the spadefoot toad. *Journal of Parasitology* 27: 153-157.
- RODGERS L. O. & KUNTZ R. E. 1940. — A new polystomatid monogenean fluke from a spadefoot. *Wasmann Collector* 4: 37-40.
- RODRÍGUEZ-GARZA E. C. 2016. — *Monitoreo de parásitos en el cultivo de bagre de canal (Ictalurus punctatus) en la granja "Acuacultivos Río Cristal de Xicoténcatl", Xicoténcatl, Tamaulipas, México*. Thesis, Departamento de Ingeniería Química y Bioquímica, Biología, Instituto Tecnológico de Ciudad Victoria, Tamaulipas, Mexico, 55 p.
- RODRÍGUEZ-GONZÁLEZ A. & VIDAL-MARTÍNEZ V. M. 2008. — Las comunidades de helmintos del lenguado (*Symphurus plagiusa*) en la costa de Campeche, México. *Revista Mexicana de Biodiversidad* 79: 159-173.
- RODRÍGUEZ-GONZÁLEZ A., MÍQUEZ-LOZANO R., LLOPIS-BELENQUER C. & BALBUENA J. A. 2015. — A new species of *Ligophorus* (Monogenea: Dactylogyridae) from the gills of the Flathead Muller *Mugil cephalus* (Teleostei: Mugillidae) from Mexico. *Acta Parasitologica* 60: 767-776. <https://doi.org/10.1515/ap-2015-0109>.
- RODRÍGUEZ-SANTIAGO M. A. & ROSALES-CASIÁN J. A. 2011. — Parasite structure of the Ocean whiting *Caulolatilus princeps* from Baja California, México (East Pacific). *Helgoland Marine Research* 65: 197-202. <https://doi.org/10.1007/s10152-010-0215-2>
- RODRÍGUEZ-SANTIAGO M. A., ROSALES-CASIÁN J. A. & GRANO-MALDONADO M. I. 2014. — Dynamics of a parasite assemblage of the Vermilion Rockfish *Sebastes miniatus* from northwestern Baja California, México. *Helgoland Marine Research* 68: 299-306.
- RODRÍGUEZ-SANTIAGO M. A., GRANO-MALDONADO M. I., AVILA E. & GÓMEZ S. 2015. — Occurrence of *Heteropriapulus heterotylus* (Monogenea: Dactylogyridae), ectoparasite of two invasive sailfin catfishes (Siluriformes: Loricariidae) from the Southeastern Mexico. *Neotropical Helminthology* 9: 55-64.
- RODRÍGUEZ-SANTIAGO A., GARCÍA-PIETO L., MENDOZA-GARFÍAS B., GONZÁLEZ-SOLÍS D. & GRANO-MALDONADO M. 2016. — Parasites of two coexisting invasive sailfin catfishes (Siluriformes: Loricariidae) in a tropical region of Mexico. *Neotropical Ichthyology* 14: e160021. <https://doi.org/10.1590/1982-0224-20160021>
- ROHDE K. 1986. — *Grubea australis* n. sp. (Monogenea, Polyopisthocotylea) from *Scomber australasicus* in southern Australia, and *Grubea cochlear* Diesing, 1858 from *S. scombrus* and *S. japonicus* in the Mediterranean and western Atlantic. *Systematic Parasitology* 9: 29-38.
- ROHDE K. & HAYWARD C. J. 1999. — Revision of the monogenean subfamily Priceinae Chauhan, 1953 (Polyopisthocotylea: Thoracocotylidae). *Systematic Parasitology* 44: 171-182. <https://doi.org/10.1023/A:1006288730216>
- RONALD K. 1957. — The metazoan parasites of the Heterostomata of the Gulf of St. Lawrence. II. *Entobdella curvunca* sp. nov. (Trematoda: Capsalidae). *Canadian Journal of Zoology* 35: 747-750.
- RUBEC L. A., BLEND C. K. & DRONEN N. O. 1995. — *Syncoelityloides zaniophori* n. sp. (Monogenea: Microcotylidae) from the Gills of *Coryphaenoides zaniophorus* (Macrouridae) from the Gulf of Mexico. *Journal of Parasitology* 81: 957-960.
- RUBIO-GODOY M., PALADINI G., GARCÍA-VÁSQUEZ A. & SHINN A. P. 2010. — *Gyrodactylus jarocho* sp. nov. and *Gyrodactylus xalapensis* sp. nov. (Platyhelminthes: Monogenea) from Mexican poeciliids (Teleostei: Cyprinodontiformes), with comments on the known gyrodactylid fauna infecting poeciliid fish. *Zootaxa* 2509: 1-29.
- RUBIO-GODOY M., MONTIEL-LEYVA A. & MARTÍNEZ-HERNÁNDEZ J. A. 2011. — Comparative susceptibility of two different genetic types of tilapia to *Neobenedenia* sp. (Monogenea). *Diseases of Aquatic Organisms* 93: 171-177. <https://doi.org/10.3354/dao02287>
- RUBIO-GODOY M., PALADINI G., FREEMAN M. A., GARCÍA-VÁSQUEZ A. & SHINN A. P. 2012. — Morphological and molecular characterisation of *Gyrodactylus salmonis* (Platyhelminthes, Monogenea) isolates collected in Mexico from rainbow trout (*Oncorhynchus mykiss* Walbaum). *Veterinary Parasitology* 186: 289-300. <https://doi.org/10.1016/j.vetpar.2011.11.005>
- RUBIO-GODOY M., RAZO-MENDIVIL U., GARCÍA-VÁSQUEZ A., FREEMAN M. A., SHINN A. P. & PALADINI G. 2016. — To each his own: no evidence of gyrodactylid parasite host switches from invasive poeciliid fishes to *Goodea atripinnis* Jordan (Cyprinodontiformes: Goodeidae), the most dominant endemic freshwater goodeid fish in the Mexican Highlands. *Parasite & Vectors* 9: 1-21.
- SALGADO-MALDONADO G. 2006. — Checklist of helminth parasites of freshwater fishes from Mexico. *Zootaxa* 1324: 1-357.
- SALGADO-MALDONADO G. 2009. — Helmintos parásitos de peces, in CEBALLOS G., LIST R., GARDUÑO G., LÓPEZ-CANO R., MUÑOZCANO-QUINTANAR M. J., COLLADO E. & SAN ROMÁN J. E. (eds), *La diversidad biológica del Estado de México. Estudio de Estado*. Gobierno del Estado de México-Comisión Nacional para el Conocimiento y uso de la Biodiversidad-Universidad Nacional Autónoma de México, Mexico City: 89-95.
- SALGADO-MALDONADO G., PINEDA-LÓPEZ R., VIDAL-MARTÍNEZ V. M. & KENNEDY C. R. 1997. — A checklist of metazoan parasites of cichlid fish from Mexico. *Journal of the Helminthological Society of Washington* 64: 195-207.
- SALGADO-MALDONADO G., CABAÑAS-CARRANZA G., CASPETA-MANDUJANO J. M., SOTO-GALERA E., MAYÉN-PEÑA E., BRAILOVSKY



- D. & BÁEZ-VALÉ R. 2001a. — Helminth parasites of freshwater fishes of the Balsas River Drainage Basin of Southwestern Mexico. *Comparative Parasitology* 68: 196-203.
- SALGADO-MALDONADO G., CABAÑAS-CARRANZA G., SOTO-GALERA E., CASPETA-MANDUJANO J. M., MORENO-NAVARRETE G., SÁNCHEZ-NAVA P. & AGUILAR-AGUILAR R. 2001b. — A checklist of helminth parasites of freshwater fishes from the Lerma-Santiago River Basin, Mexico. *Comparative Parasitology* 68: 204-218.
- SALGADO-MALDONADO G., MERCADO-SILVA N., CABAÑAS-CARRANZA G., CASPETA-MANDUJANO J. M., AGUILAR-AGUILAR R. & ÑIGUEZ-DÁVALOS L. I. 2004a. — Helminth parasites of freshwater fishes of the Ayuquila River, Sierra de Manantlán Biosphere Reserve, West Central Mexico. *Comparative Parasitology* 71: 67-72.
- SALGADO-MALDONADO G., CABAÑAS-CARRANZA G., SOTO-GALERA E., PINEDA-LÓPEZ R., CASPETA-MANDUJANO J. M., AGUILAR-CASTELLANOS E. & MERCADO-SILVA N. 2004b. — Helminth parasites of freshwater fishes of the Pánuco River Basin, East Central Mexico. *Comparative Parasitology* 71: 190-202. <https://doi.org/10.1654/4088>
- SALGADO-MALDONADO G., AGUILAR-AGUILAR R., CABAÑAS-CARRANZA G., SOTO-GALERA E. & MENDOZA-PALMERO C. 2005a. — Helminth parasites in freshwater fish from the Papaloapan river basin, Mexico. *Parasitology Research* 96: 69-89. <https://doi.org/10.1007/s00436-005-1315-9>
- SALGADO-MALDONADO G., PINEDA-LÓPEZ R., GARCÍA-MAGAÑA L., LÓPEZ-JIMÉNEZ S., VIDAL-MARTÍNEZ V. M. & AGUIRRE-MACEDO L. 2005b. — Helminths parásitos de peces dulceacuícolas, in BUENO J., ÁLVAREZ F. & SANTIAGO S. (eds), *Biodiversidad del Estado de Tabasco*. Instituto de Biología, Universidad Nacional Autónoma de México-Comisión Nacional para el Conocimiento y Uso de la Biodiversidad, Mexico City: 145-166.
- SALGADO-MALDONADO G., CASPETA-MANDUJANO J. M., MORAVEC F., SOTO-GALERA E., RODILES-HERNÁNDEZ R., CABAÑAS-CARRANZA G. & MONTOYA-MENDOZA J. 2011a. — Helminth parasites of freshwater fish in Chiapas, Mexico. *Parasitology Research* 108: 31-59. <https://doi.org/10.1007/s00436-010-2035-3>
- SALGADO-MALDONADO G., CASPETA-MANDUJANO J. M., MORAVEC F., SOTO-GALERA E., CABAÑAS-CARRANZA G. & RODILES-HERNÁNDEZ R. 2011b. — *Chiapas estudios sobre su diversidad biológica*, in ÁLVAREZ-NOGUERA F. (Ed), *Helminths parásitos de peces de agua dulce de Chiapas*. Universidad Nacional Autónoma de México, Mexico City: 185-207.
- SALGADO-MALDONADO G., NOVELO-TURCOTTE M. T., VÁZQUEZ G., CASPETA-MANDUJANO J. M., QUIRÓZ-MARTÍNEZ B. & FAVILA M. 2014. — The communities of helminth parasites of *Heterandria bimaculata* (Teleostei: Poeciliidae) from the upper Río La Antigua basin, east-central Mexico show a predictable structure. *Parasitology* 141: 970-980. <https://doi.org/10.1017/S0031182014000122>
- SALGADO-MALDONADO G., NOVELO-TURCOTTE M. T., CASPETA-MANDUJANO J. C., VÁZQUEZ-HURTADO G., QUIRÓZ-MARTÍNEZ B., MERCADO-SILVA N. & FAVILA M. 2016. — Host specificity and the structure of helminth parasite communities of fishes in a Neotropical river in Mexico. *Parasite* 23: 61. <https://doi.org/10.1051/parasite/2016073>
- SÁNCHEZ-NAVA P., SALGADO-MALDONADO G., SOTO-GALERA E. & JAIMES-CRUZ B. 2004. — Helminth parasites of *Girardinichthys multiradiatus* (Pisces: Goodeidae) in the upper Lerma River sub-basin, Mexico. *Parasitology Research* 93: 396-402.
- SÁNCHEZ-RAMÍREZ C. & VIDAL-MARTÍNEZ V. M. 2002. — Metazoan parasite infracommunities of Florida pampano (*Trachinotus carolinus*) from the coast of the Yucatan Peninsula, Mexico. *Journal of Parasitology* 88: 1087-1094. [https://doi.org/10.1645/0022-3395\(2002\)088\[1087:MPIOFP\]2.0.CO;2](https://doi.org/10.1645/0022-3395(2002)088[1087:MPIOFP]2.0.CO;2)
- SANTACRUZ-VÁZQUEZ A. O. 2013. — Análisis de las comunidades de peces y parásitos en la cuenca del Pánuco. Thesis. Facultad de Ciencias Naturales (Biología), Universidad Autónoma de Querétaro. Santiago de Querétaro, Querétaro, 101 p.
- SANTOS C. P., MOURÃO E. D. & CARDENAS M. Q. 2001. — *Pseudemplesoma gibsoni* n. sp. a new ancyrocephalid monogenean from *Paralanchurus brasiliensis* (Sciaenidae) from off the Southeastern Coast of Brazil. *Memórias do Instituto Oswaldo Cruz* 96: 215-219.
- SANTOS C. P., BIANCHI L. G. & GIBSON D. I. 2008. — *Acleotrema lamothei* n. sp. (Monogenea: Diplectanidae) from the gills of *Kyphosus incisor* in Brazilian waters. *Revista Mexicana de Biodiversidad* 79: 69S-73S.
- SARABEEV L. B., BALBUENA J. A. & EUZET L. 2005. — Taxonomic status of *Ligophorus mugilinus* (Hargis, 1955) (Monogenea: Ancyrocephalidae), with a description of a new species of *Ligophorus* from *Mugil cephalus* (Teleostei: Mugilidae) in the Mediterranean basin. *Journal of Parasitology* 91: 1444-1451. <https://doi.org/10.1645/GE-418R.1>
- SARUKHÁN J., KOLEFF P., CARABIAS J., SOBERÓN J., DIRZO R., LLORENTE J., HALFTER G., GONZÁLEZ R., MARCH I., MOHAR A., ANTA S. & DE LA MAZA J. 2009. — Capital Natural de México. Síntesis: Conocimiento Actual, Evaluación y Perspectivas De Sustentabilidad. Comisión Nacional para el Conocimiento y Uso de la Biodiversidad, México, D. F. 100 p.
- SEAMSTER A. & MONACO L. H. 1956. — A new species of Rhamnocercinae. *American Midland Naturalist* 55: 180-183.
- SERENO-URIBE A., ZAMBRANO L. & GARCÍA-VARELA M. 2012. — Reproduction and survival under different water temperatures of *Gyrodactylus mexicanus* (Platyhelminthes: Monogenea), a parasite of *Girardinichthys multiradiatus* in Central Mexico. *Journal of Parasitology* 98: 1105-1108.
- SETTI E. 1898. — *Tristomum perugiae* n. sp., sulle branchie del *Tetraodon belone* Raf. *Archives de Parasitologie* 1: 308-313.
- SOLÉR-JIMÉNEZ C. & FAJER-ÁVILA E. J. 2012. — The microecology of dactylogyrids (Monogenea: Dactylogyridae) on the gills of wild spotted rose snapper *Lutjanus guttatus* (Lutjanidae) from Mazatlan Bay, Mexico. *Folia Parasitologica* 59: 53-58.
- SOLÉR-JIMÉNEZ C., GARCÍA-GASCA A. & FAJER-ÁVILA E. J. 2012. — A new species of Euryhalotrematoides Plaisance & Kritsky, 2004 (Monogenea: Dactylogyridae) from the gills of spotted rosesnapper *Lutjanus guttatus* (Steindachner) (Perciformes: Lutjanidae). *Systematic Parasitology* 82: 113-119. <https://doi.org/10.1007/s11230-012-9351-1>
- SOLÉR-JIMÉNEZ C., MORALES-SERNA N. & FAJER-ÁVILA E. J. 2015. — Rapid infection and proliferation of dactylogyrid monogeneans on gills of spotted rose snapper (*Lutjanus guttatus*) after transfer to a sea-cage. *Veterinary Parasitology* 210: 186-193. <https://doi.org/10.1016/j.vetpar.2015.04.005>
- SOSA-MEDINA T., VIDAL-MARTÍNEZ V. M. & AGUIRRE-MACEDO M. L. 2015. — Metazoan parasites of fishes from the Celestun coastal lagoon, Yucatan, Mexico. *Zootaxa* 4007: 529-544. <https://doi.org/10.11646/zootaxa.4007.4.4>
- SROUFE S. A. 1959. — *Mazocraeoides olentangensis*, n. dp., a monogenetic trematode parasitic on the gills of the gizzard shad, *Dorosoma cepedianum* (Le Sueur). *Journal of Parasitology* 44: 643-645.
- SPROSTON N. 1945. — The genus *Kuhnina* n.g. (Trematoda: Monogenea). An examination of the values of some specific characters, including factors of relative growth. *Parasitology* 36: 176-190.
- SPROSTON N. G. 1946. — A Synopsis of the monogenetic trematodes. *Transactions of the Zoological Society of London* 25 (4): 185-600
- STUNKARD H. W. 1916. — On the anatomy and relationships of some North American Trematodes. *Journal of Parasitology* 3: 21-27.
- STUNKARD H. W. 1924. — On some trematodes from Florida turtles. *Transactions of the American Microscopical Society* 43: 97-117.
- STUNKARD H. W. 1962. — *Caballerocotyla klawei* sp. n., a monogenetic trematode from the nasal capsule of *Neothunnus macropterus*. *Journal of Parasitology* 48: 883-890.
- SURIANO D. M. 1975. — Sistemática, Biología y Microecología de tres Monogenea, Polyopisthocotylea, parásitos de las branquias de *Micropogon opercularis* (Quoy y Gaimard) y *Umbrina canosai* Berg (Pisces, Sciaenidae) del Océano Atlántico Sudoccidental. *Physis* 34: 147-163.

- SURIANO D. M. 1997. — *Palombitrema heteroancistrum* Price and Bussing, 1968 (Monogenea: Ancyrocephalidae) from *Astyanax* (A.) *fasciatus fasciatus* (Cuvier, 1819) (Pisces: Characidae) in Chascomu's Lake, Argentina: Anatomy and systematic position. *Physis* 53: 7-10.
- TANTALEAN M. V. 1974. — Monogeneos de la familia Microcotylidae Taschenberg, 1879-parásitos de peces del mar peruano con descripción de una especie nueva. *Biota* 10: 120-127.
- TANTALEAN M., ESCALANTE H. & MARTÍNEZ R. 1988. — Una especie nueva y nuevos registros de platyhelminths parásitos de peces marinos peruanos. *Boletín Lima* 60: 91-96.
- THATCHER V. E. 1963. — Trematodes of turtles from Tabasco, Mexico, with a description of a new species of *Dadaytremia* (Trematoda: Paramphistomidae). *American Midland Naturalist* 70: 347-355.
- TÉLLEZ-GUZMÁN S. A. 1997. — *Fauna helmintológica de dos especies de la familia Gerreidae: Diapterus rhombeus* (Cuviers, 1829) y *Diapterus auratus* (Ranzani, 1842) en la Laguna de La Mancha, Mpio. de Actopan, Veracruz, México. B. S. Thesis, Facultad de Biología, Universidad Veracruzana, Jalapa, Veracruz, Mexico, 56 p.
- TELLO-OSALDE G. E. 1999. — *Comparación de la helmintofauna de tres especies de peces de la Laguna Costera Río Lagartos, Yucatán*. B. S. Thesis, Facultad de Química, Universidad Autónoma de Yucatán, Mérida, Yucatán, Mexico, 81 p.
- TERÁN-JUÁREZ S. A. 2011. — *Helmintos parásitos de cinco especies de anuros en el sur de Quintana Roo, México*. B. S. Thesis, Subsecretaría de Educación Superior, Dirección General de Educación Superior Tecnológica, Instituto Tecnológico de Chetumal, Chetumal, México. 141 p.
- TEXTA-CAMACHO P. R. 2003. — *Desarrollo de un catálogo taxonómico de helmintos parásitos de peces del estado de Tabasco*. B. S. Thesis, División Académica de Ciencias Biológicas, Universidad Juárez Autónoma de Tabasco, Villahermosa, Tabasco, Mexico, 87 p.
- TRIPATHI Y. R. 1956. — Studies on the parasites of Indian fishes. IV. Trematoda: Monogenea, Microcotylidae. *Records of the Indian Museum* 52: 231-247.
- TRIPATHI Y. R. 1959. — Monogenetic trematodes from fishes of India. *Indian Journal of Helminthology* 9 1957: 1-149.
- TRUJILLO-ÁLVAREZ R. 1995. — *Fauna helmintológica de la "mojarra" Cichlasoma urophthalmus* (Günther, 1862) en el sistema lagunar de Alvarado, Veracruz, México. B. S. Thesis, Facultad de Biología, Universidad Veracruzana, Jalapa, Veracruz, Mexico, 60 p.
- TURNBULL E. R. 1956. — *Gyrodactylus bullatarudis* n. sp. from *Lebistes reticulatus* Peters with a study of its life-cycle. *Canadian Journal of Zoology* 34: 583-594.
- UETZ P. & HOŠEK J. 2015. — The Reptile Database, <http://www.reptile-database.org>, accessed 28.I.2015.
- UNNITHAN R. V. 1957. — On the functional morphology of a new fauna of Monogenea on fishes from Trivandrum and environs. Part I. Axinidae fam. nov. *Bulletin of the Central Research Institution, University of Kerala* 5: 27-122.
- UNNITHAN R. V. 1971. — On the functional morphology of a new fauna of Monogenoidea of fishes from Trivandrum and environs. Part IV. Microcotylidae sensu stricto and its repartition into subsidiary taxa. *American Midland Naturalist* 85: 366-398.
- VALA J. C., MAILLARD C. & OVERSTREET R. M. 1982. — *Haliotrema* (Monogenea: Ancyrocephalinae) from Ostraciid fishes in Guadeloupe, West Indies. *Journal of Parasitology* 68: 1130-137.
- VERRILL A. E. 1875. — Brief contribution to Zoology from the Museum of Yale College No. 33. Results of dredging. Expeditions of the New England coast in 1874. *American Journal of Science and Arts* 110: 36-43.
- VIDAL-MARTÍNEZ V. M. 1995. — *Processes structuring the helminth communities of native cichlid fishes from southern Mexico*. Ph. D. Thesis, Faculty of Science, University of Exeter, U. K., 164 p.
- VIDAL-MARTÍNEZ V. M. & MENDOZA-FRANCO E. 1998. — *Pseudorhabdosynochus capurroi* sp. n. (Monogenea: Diplectanidae) from the gills of *Mycteroperca bonaci* (Pisces: Serranidae) of the Yucatan Peninsula, Mexico. *Folia Parasitologica* 45: 221-224.
- VIDAL-MARTÍNEZ V. M. & MENDOZA-FRANCO E. 2008. — *Heterobothrium lamothei* n. sp. (Monogenea: Diclidophoridae) from the gills of *Sphaeroides testudineus* (Pisces: Tetraodontidae) from the coast of Yucatán, Mexico. *Revista Mexicana de Biodiversidad* 79: 89S-93S.
- VIDAL-MARTÍNEZ V. M. & POULIN R. 2003. — Spatial and temporal repeatability in parasite community structure of tropical fish hosts. *Parasitology* 127: 387-398. <https://doi.org/10.1017/S003118200300379>
- VIDAL-MARTÍNEZ V. M., AGUIRRE-MACEDO M. L. & MENDOZA-FRANCO E. 1997. — *Pseudorhabdosynochus yucatanensis* sp. n. (Monogenea: Diplectanidae) from the gills of the red grouper *Epinephelus morio* (Pisces: Serranidae) of the Yucatan Peninsula, Mexico. *Folia Parasitologica* 44: 274-278.
- VIDAL-MARTÍNEZ V. M., AGUIRRE-MACEDO M. L., VIVAS-RODRÍGUEZ C. & MORAVEC F. 1998. — Las comunidades de macroparásitos del mero *Epinephelus morio* (Pisces: Serranidae) en la Península de Yucatán, México. *Proceedings of the Gulf and Caribbean Fisheries Institute* 50: 764-779.
- VIDAL-MARTÍNEZ V. M., AGUIRRE-MACEDO L., SCHOLZ T., GONZÁLEZ-SOLÍS D. & MENDOZA-FRANCO E. 2001. — *Atlas of the helminth parasites of cichlid fish of Mexico*. Academia, Praha, 165 p.
- VIDAL-MARTÍNEZ V. M., AGUIRRE-MACEDO L., NOREÑA E., GOLD G. & CABALLERO P. I. 2003. — Potential interactions between metazoan parasites of the Mayan catfish *Ariopsis assimilis* and chemical pollution in Chetumal bay, Mexico. *Journal of Helminthology* 77: 173-184. <https://doi.org/10.1079/JOH2002158>
- VILLANUEVA-BALBOA C. L. 1993. — *Estudio de la prevalencia de ectoparásitos en la lobina negra (Micropterus salmoides Lacépède, 1939), en la Laguna de Salinillas, Anahuac, Nuevo León, México*. B.Sc. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, Monterrey, Nuevo León, Mexico, 149 p.
- VIOLANTE-GONZÁLEZ J. & AGUIRRE-MACEDO M. L. 2007. — Metazoan parasites of fishes from Coyuca Lagoon, Guerrero, Mexico. *Zootaxa* 1531: 39-48. <http://dx.doi.org/10.11646/zootaxa.1531.1.3>
- VIOLANTE-GONZÁLEZ J., AGUIRRE-MACEDO M. L. & MENDOZA-FRANCO E. 2007. — A checklist of metazoan parasites of fish from Tres Palos Lagoon, Guerrero, Mexico. *Parasitology Research* 102: 151-161. <https://doi.org/10.1007/s00436-007-0733-2>
- VIOLANTE-GONZÁLEZ J., AGUIRRE-MACEDO M. L., ROJAS-HERRERA A. & GIL-GUERRERO S. 2009. — Metazoan parasite community of blue sea catfish, *Sciades guatemalensis* (Ariidae), from Tres Palos Lagoon, Guerrero, Mexico. *Parasitology Research* 105: 997-1005. <https://doi.org/10.1007/s00436-009-1488-8>
- VIOLANTE-GONZÁLEZ J., MENDOZA-FRANCO E., ROJAS-HERRERA A. & GIL-GUERRERO S. 2010. — Factors determining parasite community richness and species composition in Black snook *Centropomus nigrescens* (Centropomidae) from coastal lagoons in Guerrero, Mexico. *Parasitology Research* 107: 59-66. <https://doi.org/10.1007/s00436-010-1834-x>.
- WAGENER G. R. 1857. — Beiträge zur Entwicklungs-Geschichte der Eingeweidewürmer. Eine von der Holländischen Societät der Wissenschaften zu Haarlem I. J. 1855 gekronte Preisschrift. *Natuurkundige verhandelingen van de Bataafsche Hollandsche Maatschappij der Wetenschappen te Haarlem* 2: 1-112.
- WAGNER E. D. 1975. — Left-handed *Grubea* sp. from the Pacific Coast, Baja California, Mexico. *Proceedings of the Helminthological Society of Washington* 42: 97-100.
- WAGNER E. D. & CARTER G. E. 1967. — *Caballerocotyla gregalis* n. sp. (Trematoda: Monogenea) from the gills of the *Sarda lineolata* (Girard). *Journal of Parasitology* 53: 277-279.
- WEGENER G. 1909. — Die Ektoparasiten der Fische Ostpreussens. *Schriften der Königlich-Physikalisch-Ökonomischen Gesellschaft zu Königsberg* 50: 195-286.
- WHITTINGTON I. D. & HORTON M. A. 1996. — A revision of *Neobenedenia* Yamaguti, 1963 (Monogenea: Capsalidae) including a redescription of *N. melleni* (MacCallum, 1927) Yamaguti, 1963. *Journal of Natural History* 30: 113-1156 <https://doi.org/10.1080/00222939600770611>



- WHITTINGTON I. D., DEVENEY M. R., MORGAN J. A. T., CHISHOLM L. & ADLARD R. D. 2004. — A preliminary phylogenetic analysis of the Capsalidae (Platyhelminthes: Monogenea: Monopisthocotylea) inferred from large subunit rDNA sequences. *Parasitology* 128: 511-519. <https://doi.org/10.1017/S0031182004004901>
- WHEELER T. A. & BEVERLEY-BURTON M. 1989. — Systematics of *Onchocleidus* Mueller, 1936 (Monogenea: Ancyrocephalidae): generic revision. *Canadian Journal of Zoology* 67: 136-157.
- WILLIAMS E. H. & ROGERS W. A. 1972. — *Ancyrocephalus cornutus* sp. n. (Trematoda: Monogenea) and a redescription of *A. parvus* Linton, 1940, from the Atlantic Needlefish, *Strongylura marina* (Walbaum). *Journal of Parasitology* 58: 876-878.
- WINTER H. A. 1955. — *Capsala caballeroi* sp. n., parásito de *Sarda orientalis*, con un catálogo de los tremátodos monogéneos de los peces del Océano Pacífico de las Américas. *Revista Brasileira de Biología* 15: 9-32.
- WORMS EDITORIAL BOARD. 2016. — World Register of Marine Species. Available from <http://www.marinespecies.org> at VLIZ. Accessed 30.VIII.2016. <https://doi.org/10.14284/170>
- WRIGHT R. R. 1879. — Contribution to American helminthology. *Proceedings of the Canadian Institute* 1: 3-23.
- YAMAGUTI S. 1938. — Studies on the helminth fauna of Japan. Part 24. Trematodes of fishes. V. *Japanese Journal of Zoology* 8: 15-74.
- YAMAGUTI S. 1963. — *Systema Helminthum Volume IV. Monogenea and Aspidocotylea*. Intersciences Publishers, New York, 699 p.
- YAMAGUTI S. 1965a. — New monogenetic trematodes from Hawaiian fishes I. *Pacific Science* 19: 55-92.
- YAMAGUTI S. 1968. — *Monogenetic trematodes of Hawaiian fishes*. University of Hawaii Press, Honolulu, 287 p.
- YANG T., KRITSKY D. C. & SUN Y. 2004. — Revision of *Allobenedenia* Yamaguti, 1963 (Monogeneoidea: Capsalidae) with the description of *A. zhangii* n. sp. from *Epinephelus fasciatus* (Teleostei: Serranidae) in the South China Sea. *Systematic Parasitology* 59: 223-233. <https://doi.org/10.1023/B:SYPA.0000048103.68254.9a>
- YANG T., GIBSON D. I. & ZHENG B. 2005. — *Pseudorhabdosynochus summanoides* n. sp. (Monogenea: Diplectanidae) from *Epinephelus coioides* in Dapeng Bay, South China Sea, with observations on several similar species of *Pseudorhabdosynochus* Yamaguti, 1958. *Systematic Parasitology* 62: 221-239. <https://doi.org/10.1007/s11230-005-5497-4>
- YIN W. Y. & SPROSTON N. G. 1948. — Studies on the monogenetic trematodes of China. *Sinensia* 19: 57-85.
- YOUNG P. C. 1967. — A taxonomic revision of the subfamilies Monocotylinae Gamble, 1896 and Dendromonocotylinae Hargis, 1955 (Monogeneoidea: Monocotylidae). *Journal of Zoology* 153: 381-422.
- YOUNG P. C. 1968. — Ten new species of *Haliotrema* (Monogeneoidea: Dactylogyridae) from Australian fish and a revision of the genus. *Journal of Zoology* 154: 41-75.
- ZAMBRANO-CORONADO A. 2001. — *Metazoarios parásitos del lenguado sureño Paralichthys lethostigma Jordan y Gilbert, 1884 (Pisces: Paralichthyidae) de la Laguna Madre, San Fernando, Tamaulipas, México*. M. Sc. Thesis, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Nuevo León, Mexico, 122 p.
- ZERECERO C. 1948. — Un tremátodo de la vejiga urinaria de *Kinosternon leucostomum* de la cuenca del Papaloapan, Ver. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México* 19: 163-168.
- ZERECERO C. 1960. — *Pyragraphorus caballeroi* n. sp., tremátodo de la subclase Monogenea (Carus, 1863) en peces marinos del Océano Pacífico del norte, in BRAVO-HOLLIS M., ZERECERO C. M., FLORES-BARROETA L., HIDALGO-ESCALANTE E. & WINTER H. A. (eds), *Libro Homenaje al Dr Eduardo Caballero y Caballero*. Secretaría de Educación Pública e Instituto Politécnico Nacional, Mexico City: 345-351.
- ZHUKOV E. V. 1976. — New monogenean species of the genus *Haliotrema* Johnston and Tiegs, 1922, from the Gulf of Mexico fishes of the fam. Lutianidae (sic). *Proceedings, Institute of Biology and Pedology, Far-East Science Centre, Academy of Sciences of the USSR, New Series* 35: 33-47 (in Russian).
- ZHUKOV E. V. 1981. — New species of monogeneans of the genus *Haliotrema* Johnston et Tiegs, 1922 from the gills of fish of the families Pomadasyidae and Mullidae from the Gulf of Mexico. *Parazitologicheskii Sbornik* 30: 179-189 (in Russian).
- ZHUKOV E. V. 1983. — New species of monogeneans of the genus *Haliotrema* from gills of fishes belonging to the families Serranidae and Sparidae from the Mexican Gulf. *Parazitologiya* 17: 57-61, (in Russian).
- ZHUKOV E. V. & MAMAEV Y. L. 1985. — A new member of high monogeneans from gills of *Synodus foetens* from the Gulf of Mexico. *Parazitologiya* 19: 250-253 (in Russian).

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## APPENDICES

APPENDIX 1. — Host-Parasite list of monogeneans associated to Mexican aquatic vertebrates.

Hosts	Parasites
<b>Class Elasmobranchii</b>	
Anacanthobatidae	
<i>Anacanthobatis folirostris</i> (Bigelow & Schroeder, 1951)	<i>Calicotyle kroyeri</i>
Carcharhinidae	
<i>Carcharhinus obscurus</i> (Lesueur, 1918)	<i>Loimos winteri</i>
Dasyatidae	
<i>Dasyatis brevis</i> (Garman 1880)	<i>Listrocephalos kearni</i>
<i>Hypanus americanus</i> (Hildebrand & Schroeder, 1928)	<i>Dendromonocotyle octodiscus</i>
<i>Hypanus longus</i> (Garman 1880)	<i>Dasyonchocotyle dasyatis</i> , <i>Listrocephalos whittingtoni</i>
Myliobatidae	
<i>Aetobatus narinari</i> (Euphrasen, 1790)	<i>Decacotyle floridana</i>
<i>Rhinoptera bonasus</i> (Mitchill, 1815)	<i>Benedeniella posterocolpa</i> , <i>Euzetia lamothei</i>
<i>Rhinoptera steindachneri</i> Evermann & Jenkins, 1891	<i>Denarycotyle gardneri</i> , <i>Dasybatotreminae</i> gen. sp., <i>Heterocotyle</i> sp., <i>Monocotylidae</i> gen. sp.
Rajidae	
<i>Dipturus olseni</i> (Bigelow & Schroeder, 1951)	<i>Calicotyle kroyeri</i>
Rhinobatidae	
<i>Pseudobatos glaucostigmus</i> (Jordan & Gilbert, 1883)	<i>Anoplocotylodes papillatus</i> , <i>Spinuris mexicana</i>
<i>Pseudobatos productus</i> (Ayres, 1854)	<i>Spinuris lophosoma</i>
<i>Zapteryx exasperata</i> (Jordan & Gilbert, 1880)	<i>Spinuris zapterygis</i>
Sphyrnidae	
<i>Sphyrna lewini</i> (Griffith & Smith, 1834)	<i>Loimosina parawilsoni</i>
Triakidae	
<i>Mustelus californicus</i> Gill, 1864	<i>Calicotyle californiensis</i>
Urotrygonidae	
<i>Urobatis concentricus</i> Osburn & Nichols, 1916	<i>Listrocephalos guberleti</i>
<i>Urobatis halleri</i> (Cooper, 1863)	<i>Calicotyle urobati</i> , <i>Listrocephalos guberleti</i>
<i>Urobatis jamaicensis</i> (Cuvier, 1816)	<i>Dendromonocotyle octodiscus</i>
<i>Urobatis maculatus</i> Garman, 1913	<i>Calicotyle urobati</i> , <i>Listrocephalos guberleti</i>
<i>Urobatis</i> sp.	<i>Listrocephalos guberleti</i>
Not determined	
“ <i>Mantarraya gris</i> ”	<i>Dendromonocotyle cortesii</i>
<b>Class Chondrichthyes</b>	
Acanthuridae	
<i>Prionurus punctatus</i> Gill, 1862	<i>Pseudobivagina aniversaria</i>
Albulidae	
<i>Albula nemoptera</i> Fowler, 1911	<i>Pterinotrema hoffmannae</i>
<i>Albula vulpes</i> (Linnaeus, 1758)	<i>Pterinotrema macrostomum</i>
Ariidae	
<i>Ariopsis assimilis</i> (Günther, 1864)	<i>Neotetraonchus bravohollisae</i>
<i>Ariopsis felis</i> (Linnaeus, 1766)	<i>Aristocleidus</i> sp., <i>Diplectanidae</i> gen. sp., <i>Hamatopeduncularia bagre</i> , <i>Neotetraonchus bravohollisae</i> , <i>Neotetraonchus felis</i>
<i>Ariopsis guatemalensis</i> (Günther, 1864)	<i>Dactylogyrus</i> sp., <i>Neotetraonchus</i> sp., <i>Neotetraonchus vegrandis</i>
<i>Ariopsis seemanni</i> (Günther, 1864)	<i>Neotetraonchus bychowskyi</i> , <i>Neotetraonchus</i> sp.
<i>Cathorops aguadulce</i> (Meek, 1904)	<i>Aristocleidus</i> sp., <i>Diplectanum</i> sp.
Balistidae	
<i>Balistes polylepis</i> Steindachner, 1876	<i>Paracalceostoma calceostomoides</i> , <i>Pseudomazocraes monsvaisae</i>
Belonidae	
<i>Ablennes</i> sp.	<i>Nudaciraxine cabosanlucensis</i>
<i>Strongylura notata</i> (Poey, 1860)	<i>Ancyrocephalus cornutus</i>
<i>Tylosurus acus</i> (Lacépède, 1803)	<i>Axinoides gracilis</i> , <i>Axinoides raphidoma</i> , <i>Chlamydaxine resplendens</i>
<i>Tylosurus crocodilus</i> (Péron & Lesueur, 1821)	<i>Axinoides jimenezi</i> , <i>Axinoides raphidoma</i> , <i>Bychowskymonogenea sogandaresi</i>

## APPENDIX 1. — Continuation.

Hosts	Parasites
<b>Carangidae</b>	
<i>Carangoides bartholomaei</i> (Cuvier, 1833)	<i>Cemocotyle borinquenensis</i>
<i>Carangoides otrynter</i> (Jordan & Gilbert, 1883)	<i>Pseudomazocraes monsvaisae</i>
<i>Caranx caballus</i> Günther, 1868	<i>Ahpua piscicola</i> , <i>Allopyrgraphorus caballeroi</i> , <i>Neomicrocotyle pacifica</i> , <i>Pseudomazocraes selene</i> , <i>Protomicrocotyle manteri</i>
<i>Caranx crysos</i> (Mitchill, 1815)	<i>Allopyrgraphorus incomparabilis</i> , <i>Cemocotyle carangis</i> , <i>Cemocotyle noveboracensis</i> , <i>Neomicrocotyle pacifica</i> , <i>Protomicrocotyle manteri</i> , <i>Protomicrocotyle mirabilis</i> , <i>Pseudomazocraes selene</i>
<i>Caranx hippos</i> (Linnaeus, 1776)	<i>Ahpua piscicola</i> , <i>Allopyrgraphorus caballeroi</i> , <i>Allopyrgraphorus hippos</i> , <i>Allopyrgraphorus winteri</i> , <i>Axine</i> sp., <i>Cemocotyle carangis</i> , <i>Cemocotyle noveboracensis</i> , <i>Cemocotylella elongata</i> , <i>Neomicrocotyle pacifica</i> , <i>Pseudomazocraes monsvaisae</i> , <i>Pseudomazocraes riojai</i> , <i>Pseudomazocraes selene</i> , <i>Protomicrocotyle manteri</i> , <i>Protomicrocotyle mirabilis</i> , <i>Protomicrocotyle nayaritensis</i> , <i>Salinacotyle mexicana</i> , <i>Zeuxapta seriola</i>
<i>Caranx latus</i> Agassiz, 1831	<i>Ahpua piscicola</i> , <i>Cemocotyle noveboracensis</i> , <i>Cemocotylella elongata</i> , <i>Allopyrgraphorus winteri</i> , <i>Protomicrocotyle manteri</i> , <i>Protomicrocotyle mirabilis</i> , <i>Pseudomazocraes selene</i> <i>Neomicrocotyle carangis</i> , <i>Protomicrocotyle manteri</i> , <i>Protomicrocotyle mirabilis</i>
<i>Caranx</i> sp.	<i>Amphipolycotyle chloroscombrus</i> , <i>Engraulicola thrissocles</i> , <i>Pseudomazocraes selene</i>
<i>Chloroscombrus chrysurus</i> (Linnaeus, 1766)	<i>Amphipolycotyle chloroscombrus</i>
<i>Chloroscombrus orqueta</i> Jordan & Gilbert, 1883	
<i>Decapterus muroadsi</i> (Temminck & Schlegel, 1844)	<i>Ahpua piscicola</i> , <i>Allopseudodichlidophora opelu</i> , <i>Pseudodichlidophora decapteri</i>
<i>Hemicaranx leucurus</i> (Günther, 1864)	<i>Salinacotyle mexicana</i>
<i>Oligoplites altus</i> (Günther, 1868)	<i>Hargicola oligoplites</i> , <i>Heteraxinoides zhukovi</i> , <i>Probursata ayalai</i>
<i>Oligoplites saurus</i> (Bloch & Schneider, 1801)	<i>Gotocotyla acanthura</i> , <i>Hargicola oligoplites</i> , <i>Cemocotylella elongata</i> , <i>Probursata veraecrucis</i>
<i>Selar crumenophthalmus</i> (Bloch, 1793)	<i>Choricotyle caulolati</i> , <i>Jaliscia caballeroi</i> , <i>Pseudomazocraes monsvaisae</i>
<i>Selar</i> sp.	<i>Pseudomazocraes monsvaisae</i>
<i>Selene brevoortii</i> (Gill, 1863)	<i>Pseudomazocraes monsvaisae</i>
<i>Selene peruviana</i> (Guichenot, 1866)	<i>Ahpua piscicola</i>
<i>Selene setapinnis</i> (Mitchill, 1815)	<i>Pseudomazocraes selene</i>
<i>Selene spixii</i> (Castelnau, 1855)	<i>Pseudomazocraes selene</i>
<i>Selene vomer</i> (Linnaeus, 1758)	<i>Pseudomazocraes selene</i>
<i>Seriola lalandi</i> Valenciennes, 1833	<i>Zeuxapta seriola</i>
<i>Trachinotus carolinus</i> (Linnaeus, 1766)	<i>Ancyrocephalinae</i> gen. sp., <i>Protomicrocotyle mirabilis</i> , <i>Pseudobicotylophora atlantica</i> , <i>Pyragraphorus pyragraphorus</i>
<i>Trachinotus falcatus</i> (Linnaeus, 1758)	<i>Pseudobicotylophora atlantica</i> , <i>Pyragraphorus pyragraphorus</i>
<i>Trachinotus goodei</i> Jordan & Evermann, 1896	<i>Pyragraphorus pyragraphorus</i>
<i>Trachinotus kennedyi</i> Steindachner, 1876	<i>Pseudobicotylophora lopezochoterenai</i>
<i>Trachinotus paitensis</i> Cuvier, 1832	<i>Protomicrocotyle manteri</i>
<i>Trachinotus rhodopus</i> (Gill, 1863)	<i>Ancyrocephalinae</i> gen. sp., <i>Pseudobicotylophora lopezochoterenai</i> , <i>Pseudomazocraes selene</i> , <i>Pyragraphorus hollisiae</i> , <i>Pyragraphorus pyragraphorus</i>
<b>Catostomidae</b>	
<i>Catostomus nebuliferus</i> Garman, 1881	<i>Gyrodactylus</i> sp., <i>Gyrodactylus spathulatus</i>
<b>Centrarchidae</b>	
<i>Lepomis macrochirus</i> Rafinesque, 1819	<i>Cleidodiscus bedardi</i> , <i>Gyrodactylus</i> sp., <i>Haplocleidus dispar</i> , <i>Onchocleidus spiralis</i>
<i>Micropterus salmoides</i> (Lacépède, 1802)	<i>Acolpenteron ureteroecetes</i> , <i>Actinocleidus fergusonii</i> , <i>Ancyrocephalinae</i> gen. sp., <i>Ancyrocephalus</i> sp., <i>Clavunculus bifurcatus</i> , <i>Clavunculus bursatus</i> , <i>Dactylogyrus extensus</i> , <i>Dactylogyrus</i> sp., <i>Haplocleidus dispar</i> , <i>Haplocleidus furcatus</i> , <i>Ligictaluridus floridanus</i> , <i>Onchocleidus principalis</i> , <i>Synclithrium fusiformis</i> , <i>Urocleidus principalis</i>
<b>Centropomidae</b>	
<i>Centropomus nigrescens</i> Günther, 1864	<i>Mexicotrema bychowskyi</i> , <i>Rhabdosynochus alterinstitus</i> , <i>Rhabdosynochus nigrescens</i>
<i>Centropomus parallelus</i> Poey, 1860	<i>Anakohnia</i> sp., <i>Dactylogyridae</i> gen. sp., <i>Microcotylodes</i> sp., <i>Rhabdosynochus</i> sp.
<i>Centropomus robalito</i> Jordan & Gilbert, 1882	<i>Rhabdosynochus lituparvus</i> , <i>Rhabdosynochus nigrescens</i> , <i>Rhabdosynochus siliqua</i> , <i>Rhabdosynochus</i> sp., <i>Rhabdosynochus volucris</i>
<i>Centropomus undecimalis</i> (Bloch, 1792)	<i>Microcotylodes</i> sp., <i>Rhabdosynochus</i> sp.
<i>Centropomus</i> sp.	<i>Hargicola oligoplites</i>
<i>Centropomus viridis</i> Lockington, 1877	<i>Rhabdosynochus</i> sp.

## APPENDIX 1. — Continuation.

Hosts	Parasites
Chaetodontidae <i>Johnrandallia nigrirostris</i> (Gill, 1862)	<i>Haliotrema pacificum</i>
Chanidae <i>Chanos chanos</i> (Forsskål, 1775)	<i>Microcotyloides impudicus</i>
Characidae <i>Astyanax aeneus</i> (Günther, 1860)	<i>Anacanthocotyle anacanthocotyle</i> , <i>Diaphorocleidus kabatai</i> , <i>Cacatuocotyle chajuli</i> , <i>Cacatuocotyle exiguum</i> , <i>Cacatuocotyle</i> sp., <i>Characithecium costaricensis</i> , <i>Dactylogyridae</i> gen. sp., <i>Gyrodactylus pakan</i> , <i>Gyrodactylus</i> sp., <i>Gyrodactylus taken</i> , <i>Palombitrema heteroancistrum</i> , <i>Urocleidoides</i> sp., <i>Urocleidoides strombicirrus</i>
<i>Astyanax fasciatus</i> (Cuvier, 1819)	<i>Anacanthocotyle anacanthocotyle</i> , <i>Characithecium costaricensis</i> , <i>Diaphorocleidus kabatai</i> , <i>Gyrodactylus neotropialis</i> , <i>Gyrodactylus</i> sp., <i>Mazocraeoides</i> sp., <i>Palombitrema heteroancistrum</i> , <i>Urocleidoides</i> sp., <i>Urocleidoides strombicirrus</i> .
<i>Astyanax mexicanus</i> (De Filippi, 1853)	<i>Anacanthocotyle anacanthocotyle</i> , <i>Characithecium costaricensis</i> , <i>Gyrodactylus</i> sp., <i>Microcotyle</i> sp., <i>Urocleidoides</i> sp., <i>Urocleidoides strombicirrus</i>
<i>Brycon guatemalensis</i> Regan, 1908	<i>Mazocraeoides</i> sp.
<i>Gymnocorymbus ternetzi</i> (Boulenger, 1895)	<i>Dactylogyrus</i> sp.
Cichlidae <i>Amphilophus citrinellus</i> (Günther, 1864)	<i>Sciadicleithrum bravohollisae</i>
<i>Astatheros macracanthus</i> (Günther, 1864)	<i>Sciadicleithrum mexicanum</i>
<i>Coptodon zillii</i> (Gervais, 1848)	<i>Cichlidogyrus sclerosus</i>
<i>Chiapaheros grammodes</i> (Taylor & Miller, 1980)	<i>Sciadicleithrum bravohollisae</i>
<i>Cichlasoma geddesi</i> (Regan, 1905)	<i>Gyrodactylus</i> sp., <i>Sciadicleithrum bravohollisae</i> , <i>Sciadicleithrum</i> sp.
<i>Cichlasoma</i> sp.	<i>Sciadicleithrum bravohollisae</i> , <i>Sciadicleithrum meekii</i> , <i>Sciadicleithrum splendidae</i>
<i>Cichlasoma trimaculatum</i> (Günther, 1867)	<i>Dactylogyrus</i> sp., <i>Sciadicleithrum mexicanum</i>
<i>Herichthys cyanoguttatus</i> (Baird & Girard, 1854)	<i>Ancyrocephalinae</i> gen. sp., <i>Dactylogyridae</i> gen. sp.
<i>Herichthys minckleyi</i> (Kornfield & Taylor, 1983)	<i>Ancyrocephalinae</i> gen. sp., <i>Dactylogyridae</i> gen. sp.
<i>Mayaheros beani</i> (Jordan, 1889)	<i>Sciadicleithrum</i> sp.
<i>Mayaheros urophthalmum</i> (Günther, 1862)	<i>Cichlidogyrus sclerosus</i> , <i>Palombitrema heteroancistrum</i> , <i>Sciadicleithrum bravohollisae</i> , <i>Sciadicleithrum mexicanum</i> , <i>Sciadicleithrum</i> sp.
<i>Nosferatus labridens</i> (Pellegrin, 1903)	<i>Sciadicleithrum bravohollisae</i> , <i>Sciadicleithrum</i> sp.
<i>Oreochromis aureus</i> (Steindachner, 1864)	<i>Cichlidogyrus sclerosus</i> , <i>Cichlidogyrus tilapiae</i> , <i>Cleidodiscus vanceleavei</i> , <i>Gyrodactylus cichlidarum</i> , <i>Sciadicleithrum bravohollisae</i> , <i>Scutogyrus longicornis</i> , <i>Tetracleidus banghami</i>
<i>Oreochromis mossambicus</i> (Peters, 1852)	<i>Ancyrocephalinae</i> gen. sp., <i>Cichlidogyrus dossoui</i> , <i>Cichlidogyrus sclerosus</i> , <i>Enterogyrus</i> sp., <i>Gyrodactylus cichlidarum</i> , <i>Scutogyrus</i> sp.
<i>Oreochromis niloticus</i> Linnaeus, 1758	<i>Cichlidogyrus dossoui</i> , <i>Cichlidogyrus halli</i> , <i>Cichlidogyrus haplochromii</i> , <i>Cichlidogyrus quaestio</i> , <i>Cichlidogyrus sclerosus</i> , <i>Cichlidogyrus</i> sp., <i>Cichlidogyrus tilapiae</i> , <i>Dactylogyrus</i> sp., <i>Encotyllabe</i> sp., <i>Enterogyrus cichlidarum</i> , <i>Enterogyrus malmbergi</i> , <i>Gyrodactylus cichlidarum</i> , <i>Gyrodactylus yacatl</i> , <i>Scutogyrus longicornis</i> , <i>Scutogyrus</i> sp.
<i>Oreochromis</i> sp.	<i>Cichlidogyrus dossoui</i> , <i>Cichlidogyrus sclerosus</i> , <i>Cichlidogyrus tilapiae</i> , <i>Dactylogyrus</i> sp., <i>Enterogyrus malmbergi</i> , <i>Neobenedenia</i> sp., <i>Scutogyrus longicornis</i> , <i>Urocleidus</i> sp.
<i>Oreochromis urolepis</i> Trewavas, 1966	<i>Ancyrocephalinae</i> gen. sp., <i>Cichlidogyrus sclerosus</i>
<i>Parachromis friedrichsthalii</i> (Heckel, 1840)	<i>Ancyrocephalinae</i> gen. sp., <i>Sciadicleithrum meekii</i> , <i>Sciadicleithrum mexicanum</i> , <i>Sciadicleithrum splendidae</i>
<i>Parachromis managuensis</i> (Günther, 1867)	<i>Sciadicleithrum bravohollisae</i> , <i>Sciadicleithrum meekii</i> , <i>Sciadicleithrum splendidae</i> , <i>Gyrodactylus</i> sp.
<i>Petenia splendida</i> Günther, 1862	<i>Dactylogyridae</i> gen. sp., <i>Gyrodactylus</i> sp., <i>Sciadicleithrum bravohollisae</i> , <i>Sciadicleithrum meekii</i> , <i>Sciadicleithrum mexicanum</i> , <i>Sciadicleithrum splendidae</i>
<i>Rheoheros lentiginosus</i> (Steindachner, 1864)	<i>Sciadicleithrum bravohollisae</i>
<i>Rocio octofasciata</i> (Regan, 1903)	<i>Gyrodactylus</i> sp., <i>Sciadicleithrum bravohollisae</i> , <i>Sciadicleithrum mexicanum</i> , <i>Parasciadicleithrum octofasciatum</i>
<i>Thorichthys aureus</i> (Günther, 1862)	<i>Gyrodactylus</i> sp., <i>Sciadicleithrum mexicanum</i>
<i>Thorichthys callolepis</i> (Regan, 1904)	<i>Enterogyrus malmbergi</i> , <i>Sciadicleithrum meekii</i>
<i>Thorichthys helleri</i> (Steindachner, 1864)	<i>Gyrodactylus</i> sp., <i>Sciadicleithrum bravohollisae</i> , <i>Sciadicleithrum meekii</i>
<i>Thorichthys meeki</i> (Brind, 1918)	<i>Gyrodactylus</i> sp., <i>Sciadicleithrum meekii</i>



## APPENDIX 1. — Continuation.

Hosts	Parasites
<i>Thorichthys pasionis</i> (Rivas, 1962)	<i>Dactylogyrus</i> sp., <i>Gyrodactylus</i> sp.
<i>Trichromis salvini</i> (Günther, 1862)	<i>Sciadicleithrum bravohollisae</i>
<i>Vieja breidohri</i> (Werner & Stawikowski, 1987)	<i>Sciadicleithrum bravohollisae</i>
<i>Vieja fenestrata</i> (Günther, 1860)	<i>Cichlidogyrus sclerosus</i> , <i>Cichlidogyrus tilapiae</i> , <i>Gyrodactylus</i> sp., <i>Sciadicleithrum bravohollisae</i> , <i>Sciadicleithrum mexicanum</i> , <i>Scutogyrus longicornis</i>
<i>Vieja hartwegi</i> (Taylor & Miller, 1980)	<i>Sciadicleithrum bravohollisae</i>
<i>Vieja melanura</i> (Günther, 1862)	<i>Dactylogyridae</i> gen. sp., <i>Sciadicleithrum bravohollisae</i> , <i>Sciadicleithrum meekii</i> , <i>Sciadicleithrum mexicanum</i> , <i>Sciadicleithrum</i> sp., <i>Sciadicleithrum splendidae</i>
Cirrhitidae	
<i>Cirrhitis rivulatus</i> Valenciennes, 1846	<i>Haliotrema cirrhitusi</i> , <i>Haliotrema pollexinus</i> , <i>Microcotyloides incisa</i>
Clupeidae	
<i>Dorosoma anale</i> Meek, 1904	<i>Mazocraeoides olentangiensis</i> , <i>Mazocraeoides</i> sp., <i>Pseudanthocotyloides banghami</i>
<i>Dorosoma cepedianum</i> (Lesueur, 1818)	<i>Mazocraeoides bychowskyi</i> , <i>Mazocraeoides olentangiensis</i> , <i>Pseudomazocraeoides megalocotyle</i>
<i>Opisthonema libertate</i> (Günther, 1867)	<i>Kuhnina</i> sp., <i>Polymicrocotyle manteri</i>
Cynoglossidae	
<i>Symphurus plagiusa</i> (Linnaeus, 1766)	<i>Ergenstrema</i> sp.
Cyprinidae	
<i>Agosia chrysogaster</i> Girard, 1856	<i>Dactylogyrus</i> sp.
<i>Algansea lacustris</i> Steindacher, 1895	<i>Dactylogyrus</i> sp., <i>Octomacrum mexicanum</i>
<i>Algansea tincella</i> (Valenciennes, 1844)	<i>Dactylogyrus</i> sp.
<i>Aztecula sallaei</i> (Günther, 1868)	<i>Dactylogyrus</i> sp., <i>Gyrodactylus</i> sp.
<i>Campostoma ornatum</i> Girard, 1856	<i>Gyrodactylus</i> sp.
<i>Carassius auratus</i> (Linnaeus, 1758)	<i>Dactylogyrus anchoratus</i> , <i>Dactylogyrus dulkeiti</i> , <i>Dactylogyrus intermedius</i> , <i>Dactylogyrus</i> sp., <i>Dactylogyrus vastator</i> , <i>Gyrodactylus</i> sp.
<i>Codoma ornata</i> Girard, 1856	<i>Dactylogyrus</i> sp.
<i>Ctenopharyngodon idella</i> (Valenciennes, 1844)	<i>Dactylogyrus</i> sp.
<i>Cyprinella formosa</i> (Girard, 1856)	<i>Dactylogyrus</i> sp.
<i>Cyprinella garmani</i> (Jordan, 1885)	<i>Dactylogyrus</i> sp.
<i>Cyprinus carpio</i> Linnaeus, 1758	<i>Actinocleidus</i> sp., <i>Ancyrocephalinae</i> gen. sp., <i>Cleidodiscus</i> sp., <i>Dactylogyrus anchoratus</i> , <i>Dactylogyrus dulkeiti</i> , <i>Dactylogyrus extensus</i> , <i>Dactylogyrus intermedius</i> , <i>Dactylogyrus minutus</i> , <i>Dactylogyrus</i> sp., <i>Dactylogyrus vastator</i> , <i>Gyrodactylus</i> sp., <i>Gyrodactylus sprostonae</i> , <i>Ligictaluridus floridanus</i>
<i>Gila conspersa</i> Garman, 1881	<i>Dactylogyrus</i> sp., <i>Gyrodactylus</i> sp., <i>Gyrodactylus spathulatus</i>
<i>Gila nigrescens</i> (Girard, 1856)	<i>Dactylogyrus</i> sp.
<i>Notropis boucardi</i> Günther, 1868	<i>Gyrodactylus</i> sp.
<i>Notropis chihuahua</i> Woolman, 1892	<i>Dactylogyrus</i> sp.
<i>Notropis nazas</i> Meek, 1904	<i>Dactylogyrus</i> sp., <i>Gyrodactylus</i> sp.
<i>Notropis</i> sp.	<i>Gyrodactylus</i> sp.
<i>Notropis stramineus</i> (Cope, 1865)	<i>Dactylogyrus</i> sp.
<i>Tampichthys rasconis</i> (Jordan & Snyder, 1899)	<i>Dactylogyrus</i> sp.
<i>Yuriria alta</i> (Jordan, 1880)	<i>Dactylogyridae</i> gen. sp., <i>Dactylogyrus</i> sp., <i>Gyrodactylus</i> sp.,
Cyprinodontidae	
<i>Cyprinodon atrorus</i> Miller, 1968	<i>Gyrodactylus</i> sp., <i>Salsuginus</i> sp.
<i>Cyprinodon meeki</i> Miller, 1976	<i>Salsuginus angularis</i>
<i>Cyprinodon</i> sp.	<i>Salsuginus</i> sp.
Eleotridae	
<i>Dormitator maculatus</i> (Bloch, 1792)	<i>Gyrodactylus</i> sp., <i>Urocleidus</i> sp.
<i>Gobiomorus dormitor</i> Lacépède, 1800	<i>Guavinella tropica</i> , <i>Urocleidoides</i> sp.
<i>Gobiomorus maculatus</i> (Günther, 1859)	<i>Gyrodactylus</i> sp.
<i>Gobiomorus</i> sp.	<i>Guavinella tropica</i>
Embiotocidae	
<i>Embiotoca lateralis</i> Agassiz, 1854	<i>Pseudoallencotyla pricei</i>
<i>Rhacochilus vacca</i> (Girard, 1855)	<i>Pseudoallencotyla pricei</i>
Engraulidae	
<i>Anchoa hepsetus</i> Linnaeus (1758)	<i>Pseudanthocotyloides dossae</i>
Ephippidae	
<i>Chaetodipterus zonatus</i> (Girard, 1858)	<i>Parancylodiscoides chaetodipteri</i> , <i>Sprostoniella lamothei</i>

## APPENDIX 1. — Continuation.

Hosts	Parasites
Fundulidae <i>Fundulus lima</i> Vaillant, 1894	<i>Salsuginus</i> sp.
Gerreidae <i>Diapterus auratus</i> Ranzani, 1842	<i>Aristocleidus hastatus</i> , <i>Aristocleidus</i> sp., <i>Diplectanidae</i> gen. sp., <i>Diplectanum</i> sp., <i>Paramicrocotyle atriobursata</i> , <i>Microcotyle tampicensis</i>
<i>Diapterus peruvianus</i> (Cuvier, 1830)	<i>Aristocleidus hastatus</i> , <i>Aristocleidus lamothei</i> , <i>Dactylogyridae</i> gen. sp.
<i>Diapterus rhombeus</i> (Cuvier, 1829)	<i>Aristocleidus hastatus</i> , <i>Aristocleidus lamothei</i> , <i>Dactylogyridae</i> gen. sp., <i>Diplectanidae</i> gen. sp., <i>Diplectanum</i> sp., <i>Neodiplectanum mexicanum</i> , <i>Pseudorhabdosynochus</i> sp.
<i>Eugerres mexicanus</i> (Steindachner, 1863)	<i>Aristocleidus lacantuni</i> , <i>Aristocleidus mexicanus</i> , <i>Dactylogyrus</i> sp., <i>Diplectanum</i> sp., <i>Neodiplectanum</i> sp.
<i>Eugerres plumieri</i> (Cuvier, 1830)	<i>Aristocleidus hastatus</i> , <i>Aristocleidus lamothei</i> , <i>Encotyllabe</i> sp., <i>Haliotrema</i> sp., <i>Neodiplectanum magnodiscatum</i> , <i>Octouneuhaptor eugerrei</i> , <i>Tetrancistrum</i> sp.
<i>Gerres cinereus</i> (Walbaum, 1792)	<i>Aristocleidus hastatus</i> , <i>Aristocleidus</i> sp., <i>Microcotyle neozealanicus</i>
Gobiidae <i>Gillichthys mirabilis</i> Cooper, 1864	<i>Gyrodactylus</i> sp.
Goodeidae <i>Allotoca diazi</i> (Meek, 1902)	<i>Gyrodactylus lamothei</i> , <i>Salsuginus angularis</i>
<i>Allotoca dugesii</i> (Bean, 1887)	<i>Gyrodactylus lamothei</i> , <i>Gyrodactylus mexicanus</i> , <i>Gyrodactylus</i> sp., <i>Salsuginus angularis</i>
<i>Ameca splendens</i> Miller & Fitzsimons, 1971	<i>Salsuginus angularis</i>
<i>Chapalichthys encaustus</i> (Jordan & Snyder, 1899)	<i>Salsuginus angularis</i> , <i>Salsuginus</i> sp.
<i>Characodon audax</i> Smith & Miller, 1986	<i>Salsuginus angularis</i> , <i>Salsuginus</i> sp.
<i>Characodon lateralis</i> Günther, 1866	<i>Salsuginus angularis</i>
<i>Girardinichthys multiradiatus</i> (Meek, 1904)	<i>Gyrodactylus lamothei</i> , <i>Gyrodactylus mexicanus</i> , <i>Gyrodactylus</i> sp., <i>Salsuginus</i> sp.
<i>Girardinichthys viviparus</i> (Bustamante, 1837)	<i>Gyrodactylus</i> sp.
<i>Goodea atripinnis</i> Jordan, 1880	<i>Gyrodactylus lamothei</i> , <i>Gyrodactylus mexicanus</i> , <i>Gyrodactylus</i> sp., <i>Gyrodactylus tomahuac</i> , <i>Salsuginus angularis</i> , <i>Salsuginus</i> sp.
<i>Ilyodon furcoides</i> (Jordan & Gilbert, 1882)	<i>Salsuginus angularis</i>
<i>Ilyodon whitei</i> (Meek, 1904)	<i>Salsuginus angularis</i>
<i>Skiffia lermæ</i> Meek, 1902	<i>Gyrodactylus mexicanus</i> , <i>Gyrodactylus</i> sp., <i>Salsuginus angularis</i>
<i>Skiffia multipunctata</i> (Pellegrin, 1901)	<i>Salsuginus angularis</i>
<i>Xenotaenia resolanae</i> Turner, 1946	<i>Salsuginus angularis</i>
<i>Xenotoca melanosoma</i> Fitzsimons, 1972	<i>Gyrodactylus</i> sp., <i>Salsuginus angularis</i>
<i>Xenotoca variata</i> (Bean, 1887)	<i>Gyrodactylus mexicanus</i> , <i>Gyrodactylus</i> sp., <i>Salsuginus angularis</i> , <i>Salsuginus</i> sp.
<i>Zoogoneticus quitzeensis</i> (Bean, 1898)	<i>Gyrodactylus</i> sp., <i>Salsuginus angularis</i> , <i>Salsuginus</i> sp.
Haemulidae <i>Anisotremus dovii</i> (Günther, 1864)	<i>Cynoscionicola srivastavai</i> , <i>Magniexcipula lamothei</i>
<i>Anisotremus interruptus</i> (Gill, 1862)	<i>Paracalceostoma calceostomoides</i>
<i>Haemulon aureolineatum</i> Cuvier, 1829	<i>Haliotrematoides striatohamus</i>
<i>Haemulon carbonarium</i> Poey, 1860	<i>Haliotrematoides striatohamus</i>
<i>Haemulon flavolineatum</i> (Desmarest, 1823)	<i>Haliotrematoides striatohamus</i>
<i>Haemulon melanurum</i> (Linnaeus, 1758)	<i>Haliotrematoides striatohamus</i>
<i>Haemulon maculicauda</i> (Gill, 1862)	<i>Mexicana bychowskyi</i>
<i>Haemulon plumierii</i> (Lacépède, 1801)	<i>Haliotrematoides striatohamus</i>
<i>Haemulon sciurus</i> (Shaw, 1803)	<i>Haliotrematoides striatohamus</i>
<i>Haemulon scudderii</i> Gill, 1862	<i>Mexicana littoralis</i> , <i>Paracalceostoma calceostomoides</i>
<i>Haemulon sexfasciatum</i> Gill, 1862	<i>Mexicana littoralis</i>
<i>Microlepidotus brevipinnis</i> (Steindachner, 1869)	<i>Choricotyle leonilavazquezae</i> , <i>Mexicana bychowskyi</i> , <i>Pseudoeurysorchis travassosi</i>
<i>Microlepidotus inornatus</i> Gill, 1862	<i>Choricotyle sonorensis</i> , <i>Gotocotyla acanthura</i> , <i>Pseudoeurysorchis travassosi</i> , <i>Pseudotetrancistrum skrabini</i>
<i>Pomadasys macracanthus</i> (Günther, 1864)	<i>Encotyllabe pagrosomi</i>
<i>Xenistius californiensis</i> (Steindachner, 1876)	<i>Entobdella hippoglossi</i> , <i>Haliotrema</i> sp., <i>Macrovalvitrema sinaloense</i> , <i>Polynemicola californica</i>
Heptapteridae <i>Rhamdia laticauda</i> (Kner, 1858)	<i>Ameloblastella chavarraia</i> , <i>Aphanoblastella travassosi</i> , <i>Gyrodactylus</i> sp.
<i>Rhamdia guatemalensis</i> (Günther, 1864)	<i>Ameloblastella chavarraia</i> , <i>Aphanoblastella travassosi</i> , <i>Gyrodactylus</i> sp., <i>Pavanelliella scaphiocotylus</i> , <i>Scleroductus lyrocleithrum</i>
Holocentridae <i>Holocentridae</i> gen. sp.	<i>Paracalceostoma calceostomoides</i>
Ictaluridae <i>Ictalurus balsanus</i> (Jordan & Snyder, 1899)	<i>Cleidodiscus</i> sp.

## APPENDIX 1. — Continuation.

Hosts	Parasites
<i>Ictalurus furcatus</i> (Valenciennes, 1840)	<i>Ligistaluridus mirabilis</i>
<i>Ictalurus meridionalis</i> (Günther, 1864)	<i>Cleidodiscus</i> sp., <i>Ligistaluridus mirabilis</i> , <i>Microcotyle</i> sp.
<i>Ictalurus</i> cf. <i>pricei</i> (Rutter, 1896)	<i>Gyrodactylus spathulatus</i> , <i>Ligistaluridus mirabilis</i> , <i>Ligistaluridus pricei</i>
<i>Ictalurus punctatus</i> (Rafinesque, 1818)	<i>Dactylogyrus extensus</i> , <i>Dactylogyrus</i> sp., <i>Gyrodactylus</i> sp., <i>Ligistaluridus floridanus</i>
<i>Ictalurus</i> sp.	<i>Ligistaluridus floridanus</i>
Istiophoridae	
<i>Istiophorus platypterus</i> (Shaw, 1792)	<i>Capsaloides perugiai</i>
<i>Kajikia audax</i> (Philippi, 1887)	<i>Capsala laevis</i> , <i>Capsala pricei</i> , <i>Capsaloides hoffmanae</i> , <i>Capsaloides sinuatus</i>
Kyphosidae	
<i>Kyphosus elegans</i> (Peters, 1869)	<i>Acleotrema girellae</i> , <i>Acleotrema nenuae</i> , <i>Acleotrema oliveri</i> , <i>Pseudobivagina aniversaria</i>
<i>Kyphosus sectatrix</i> (Linnaeus, 1758)	<i>Acleotrema diplobulbus</i> , <i>Acleotrema oliveri</i>
<i>Kyphosus</i> sp.	<i>Pseudobivagina aniversaria</i>
<i>Sectator ocyurus</i> (Jordan & Gilbert, 1882)	<i>Pseudobivagina aniversaria</i>
Labridae	
<i>Semicossyphus pulcher</i> (Ayres, 1854)	<i>Entobdella</i> sp., <i>Haliotrema</i> sp.
Loricariidae	
<i>Pterygoplichthys disjunctivus</i> (Weber, 1991)	<i>Heteropriapulus heterotylus</i>
<i>Pterygoplichthys multiradiatus</i> (Hancock, 1828)	<i>Dactylogyrus</i> sp., <i>Gyrodactylus</i> sp.
<i>Pterygoplichthys pardalis</i> (Castelnau, 1855)	<i>Heteropriapulus heterotylus</i> , <i>Heteropriapulus</i> sp., <i>Urocleidoides vaginoclastrum</i>
Lutjanidae	
<i>Lutjanus analis</i> (Cuvier, 1828)	<i>Euryhaliotrema tubocirrus</i> , <i>Haliotrematoides longihamus</i> , <i>Haliotrematoides magnigastrohamus</i>
<i>Lutjanus apodus</i> (Walbaum, 1792)	<i>Euryhaliotrema tubocirrus</i> , <i>Haliotrematoides gracilihamus</i> , <i>Haliotrematoides heteracantha</i>
<i>Lutjanus argentiventris</i> (Peters, 1869)	<i>Macrovalvitrema sinaloense</i> , <i>Microcotyloides incisa</i> , <i>Pterinotrematoides mexicanum</i>
<i>Lutjanus campechanus</i> (Poey, 1860)	<i>Euryhaliotrema tubocirrus</i> , <i>Polymicrocotyle manteri</i>
<i>Lutjanus colorado</i> Jordan & Gilbert, 1882	<i>Microcotyloides incisa</i> , <i>Polymicrocotyle manteri</i>
<i>Lutjanus cyanopterus</i> (Cuvier, 1828)	<i>Euryhaliotrema tubocirrus</i> , <i>Haliotrematoides overstreeti</i> , <i>Microcotyloides incisa</i>
<i>Lutjanus griseus</i> (Linnaeus, 1758)	<i>Ancyrocephalinae</i> gen. sp., <i>Haliotrematoides gracilihamus</i>
<i>Lutjanus guttatus</i> (Steindachner, 1869)	<i>Euryhaliotrema mehen</i> , <i>Euryhaliotrema perezponcei</i> , <i>Haliotrematoides guttati</i> , <i>Haliotrematoides plectridium</i> , <i>Haliotrematoides spinatus</i> , <i>Microcotyloides incisa</i> , <i>Polymicrocotyle manteri</i> , <i>Pseudobivagina aniversaria</i>
<i>Lutjanus inermis</i> Peters 1869	<i>Microcotyloides incisa</i>
<i>Lutjanus jocu</i> (Bloch & Schneider 1801)	<i>Haliotrematoides gracilihamus</i>
<i>Lutjanus jordani</i> (Gilbert 1898)	<i>Microcotyloides incisa</i> , <i>Polymicrocotyle manteri</i>
<i>Lutjanus mahogoni</i> (Cuvier, 1828)	<i>Euryhaliotrema longibaculum</i> , <i>Euryhaliotrema torquecirrus</i> , <i>Euryhaliotrema tubocirrus</i> , <i>Haliotrematoides cornigerum</i> , <i>Haliotrematoides heteracantha</i> , <i>Haliotrematoides longihamus</i> , <i>Haliotrematoides magnigastrohamus</i>
<i>Lutjanus synagris</i> (Linnaeus, 1758)	<i>Dactylogyridae</i> gen. sp., <i>Euryhaliotrema longibaculum</i> , <i>Euryhaliotrema torquecirrus</i> , <i>Euryhaliotrema tubocirrus</i> , <i>Haliotrematoides cornigerum</i> , <i>Haliotrematoides heteracantha</i> , <i>Haliotrematoides longihamus</i> , <i>Haliotrematoides magnigastrohamus</i>
<i>Ocyurus chrysurus</i> (Bloch, 1791)	<i>Euryhaliotrema torquecirrus</i> , <i>Haliotrematoides heteracantha</i> , <i>Haliotrematoides magnigastrohamus</i> , <i>Microcotyloides incisa</i>
<i>Rhomboplites aurubens</i> (Cuvier, 1829)	<i>Euryhaliotrema tubocirrus</i>
Macrouridae	
<i>Coryphaenoides</i> sp.	<i>Cyclocotyloides pinguis</i>
Malacanthidae	
<i>Caulolatilus affinis</i> Gill, 1865	<i>Choricotyle caulolati</i> , <i>Encotyllabe pagrosomi</i> , <i>Jaliscia caballeroi</i> , <i>Jaliscia</i> sp.
<i>Caulolatilus princeps</i> (Jenyns, 1840)	<i>Choricotyle caulolati</i> , <i>Jaliscia caballeroi</i>
Megalopidae	
<i>Megalops atlanticus</i> Valenciennes, 1847	<i>Diplectanocotyla megalopis</i> , <i>Diplectanocotyla</i> sp.
Moridae	
<i>Antimora microlepis</i> Bean, 1890	<i>Choricotyle oregonensis</i>
Mugilidae	
<i>Agonostomus monticola</i> (Bancroft 1834)	<i>Ancyrocephalus</i> sp., <i>Diplectanidae</i> gen. sp., <i>Microcotylidae</i> gen. sp.
<i>Mugil cephalus</i> Linnaeus, 1758	<i>Ligophorus</i> sp., <i>Ligophorus yucatanensis</i> , <i>Metamicrocotyla chamelense</i> , <i>Metamicrocotyla macracantha</i> , <i>Metamicrocotyla mugilis</i> , <i>Neobenedenia pacifica</i> , <i>Solostamenides pseudomugilis</i>
<i>Mugil curema</i> Valenciennes, 1836	<i>Aristocleidus</i> sp., <i>Axinidae</i> gen. sp., <i>Dactylogyrus</i> sp., <i>Ligophorus mugilinus</i> , <i>Ligophorus vanbenedeni</i> , <i>Metamicrocotyla chamelense</i> , <i>Metamicrocotyla macracantha</i> , <i>Metamicrocotyla pacifica</i> , <i>Metamicrocotyla</i> sp., <i>Solostamenides pseudomugilis</i>



## APPENDIX 1. — Continuation.

Hosts	Parasites
Myctophidae <i>Nannobranchium ritteri</i> (Gilbert, 1915)	<i>Lampanyctophilus wisneri</i>
Osphronemidae <i>Trichogaster lalius</i> (Hamilton, 1822)	<i>Gyrodactylus</i> sp.
Ostraciidae <i>Acanthostracion quadricornis</i> (Linnaeus, 1758)	<i>Haliotrema lactophrys</i>
Paralichthyidae <i>Paralichthys lethostigma</i> Jordan & Gilbert, 1884 <i>Syacium</i> sp.	<i>Macrovalvitrema sinaloense</i> , <i>Pterinotrematoides mexicanum</i> <i>Neoheterobothrium syacii</i>
Percidae <i>Etheostoma</i> sp.	<i>Dactylogyridae</i> gen. sp.
Poeciliidae <i>Belonesox belizanus</i> Kner, 1860 <i>Gambusia yucatana</i> Regan, 1914 <i>Heterandria bimaculata</i> (Heckel, 1848)  <i>Heterandria jonesii</i> (Günther, 1874) <i>Poecilia mexicana</i> Steindachner, 1863  <i>Poecilia petenensis</i> Günther, 1866 <i>Poecilia sphenops</i> Valenciennes, 1846 <i>Poecilia reticulata</i> Peters, 1859 <i>Poeciliopsis gracilis</i> (Heckel, 1848)  <i>Poeciliopsis infans</i> (Woolman, 1894) <i>Xiphophorus birchmanni</i> Lechner & Radda, 1987 <i>Xiphophorus hellerii</i> Heckel, 1848  <i>Xiphophorus malinche</i> Rauchenberger, Kallman & Morizot, 1990 <i>Xiphophorus</i> sp. <i>Xiphophorus variatus</i> (Meek, 1904)	<i>Salsuginus neotropicalis</i> , <i>Uroleidoides reticulatus</i> <i>Gyrodactylus</i> sp., <i>Salsuginus seculus</i> <i>Ancyrocephalinae</i> gen. sp., <i>Gyrodactylidae</i> gen. sp., <i>Gyrodactylus bullatarudis</i> , <i>Gyrodactylus cichlidarum</i> , <i>Gyrodactylus</i> sp., <i>Gyrodactylus takoke</i> , <i>Gyrodactylus xalapensis</i> , <i>Gyrodactylus xtachuna</i> , <i>Uroleidoides</i> sp., <i>Uroleidoides vaginoclaustroides</i> , <i>Uroleidoides vaginoclaustum</i> <i>Gyrodactylus</i> sp. <i>Gyrodactylus actzu</i> , <i>Gyrodactylus apazapanensis</i> , <i>Gyrodactylus bullatarudis</i> , <i>Gyrodactylus cichlidarum</i> , <i>Gyrodactylus ihkahuili</i> , <i>Gyrodactylus microdactylus</i> , <i>Gyrodactylus pseudobullatarudis</i> , <i>Gyrodactylus</i> sp., <i>Gyrodactylus xtachuna</i> , <i>Uroleidoides reticulatus</i> <i>Uroleidoides reticulatus</i> <i>Dactylogyrus</i> sp., <i>Gyrodactylus</i> sp. <i>Gyrodactylus</i> sp., <i>Salsuginus</i> sp. <i>Actinocleidus</i> sp., <i>Gyrodactylus bullatarudis</i> , <i>Gyrodactylus cichlidarum</i> , <i>Gyrodactylus pseudobullatarudis</i> , <i>Gyrodactylus</i> sp., <i>Gyrodactylus takoke</i> , <i>Gyrodactylus unami</i> , <i>Gyrodactylus xtachuna</i> <i>Gyrodactylus</i> sp., <i>Salsuginus angularis</i> , <i>Salsuginus</i> sp. <i>Uroleidoides vaginoclaustum</i>  <i>Gyrodactylus apazapanensis</i> , <i>Gyrodactylus bullatarudis</i> , <i>Gyrodactylus jarocho</i> , <i>Gyrodactylus pseudobullatarudis</i> , <i>Gyrodactylus</i> sp., <i>Uroleidoides vaginoclaustum</i> <i>Uroleidoides vaginoclaustum</i>  <i>Dactylogyridae</i> gen. sp. <i>Uroleidoides</i> sp.
Polynemidae <i>Polydactylus approximans</i> (Lay & Bennett, 1839) <i>Polydactylus octonemus</i> (Girard, 1858)	<i>Microcotyloides impudicus</i> <i>Ahpua piscicola</i> , <i>Microcotyloides impudicus</i>
Polyprionidae <i>Stereolepis gigas</i> Ayres, 1859	<i>Pseudorhabdosynochus caballeroi</i>
Profundulidae <i>Profundulus labialis</i> (Günther, 1866) <i>Profundulus oaxacae</i> (Meek, 1902) <i>Profundulus punctatus</i> (Günther, 1866) <i>Profundulus</i> sp.	<i>Uroleidoides simonae</i> , <i>Uroleidoides vaginoclaustum</i> <i>Uroleidoides simonae</i> <i>Gyrodactylus</i> sp., <i>Salsuginus</i> sp., <i>Uroleidoides simonae</i> , <i>Uroleidoides</i> sp. <i>Uroleidoides simonae</i>
Rachycentridae <i>Rachycentron canadum</i> (Linnaeus, 1766)	<i>Pseudempleurosoma gibsoni</i>
Salmonidae <i>Oncorhynchus mykiss</i> (Walbaum, 1792)	<i>Gyrodactylus salmonis</i> , <i>Gyrodactylus</i> sp.
Scaridae <i>Scarus perrico</i> Jordan & Gilbert, 1882	<i>Neobenedenia adenea</i> , <i>Neobenedenia melleni</i>
Sciaenidae <i>Aplodinotus grunniens</i> Rafinesque, 1819 <i>Atractoscion nobilis</i> (Ayres, 1860) <i>Bairdiella chrysoura</i> (Lacepède, 1802) <i>Bairdiella icistia</i> (Jordan & Gilbert, 1882)	<i>Diplostamenides spinicirrus</i> , <i>Lintaxine cokeri</i> <i>Anchoromicrocotyle guaymensis</i> <i>Pedocotyle minima</i> , <i>Rhamnocercus bairdiella</i> , <i>Rhamnocercus margaritae</i> <i>Cynoscioncola srivastavai</i>

## APPENDIX 1. — Continuation.

Hosts	Parasites
<i>Bairdiella ronchus</i> (Cuvier, 1830)	<i>Ancyrocephalinae</i> gen. sp.
<i>Cynoscion arenarius</i> Ginsburg, 1930	<i>Cynoscionicola heteracantha</i> , <i>Cynoscionicola pseudoheteracantha</i> , <i>Hargicotyle louisianensis</i>
<i>Cynoscion nebulosus</i> (Cuvier, 1830)	<i>Cynoscionicola heteracantha</i> , <i>Diplectanidae</i> gen. sp., <i>Diplectanum bilobatus</i> , <i>Eurysorchis australis</i> , <i>Microcotylidae</i> gen. sp., <i>Neoheterobothrium cynoscioni</i>
<i>Cynoscion nothus</i> (Holbrook, 1848)	<i>Cynoscionicola pseudoheteracantha</i>
<i>Cynoscion xanthulus</i> Jordan & Gilbert, 1882	<i>Bravocotyle sanblasensis</i> , <i>Cynoscionicola srivastavai</i>
<i>Isopisthus remifer</i> Jordan & Gilbert, 1882	<i>Cynoscionicola srivastavai</i>
<i>Leiostomus xanthurus</i> Lacépède, 1802	<i>Macrovalvitrematoides</i> sp.
<i>Menticirrhus americanus</i> (Linnaeus, 1758)	<i>Encotyllabe</i> sp., <i>Hargicotyle louisianensis</i> , <i>Rhamnocercoides stichospinus</i>
<i>Menticirrhus littoralis</i> (Holbrook, 1847)	<i>Encotyllabe</i> sp., <i>Hargicotyle louisianensis</i> , <i>Rhamnocercoides stichospinus</i>
<i>Menticirrhus saxatilis</i> (Bloch & Schneider, 1801)	<i>Hargicotyle louisianensis</i> , <i>Rhamnocercoides stichospinus</i>
<i>Micropogonias ectenes</i> (Jordan & Gilbert, 1882)	<i>Macrovalvitrema sinaloense</i> , <i>Pterinotrematoides mexicanum</i>
<i>Micropogonias megalops</i> (Gilbert, 1890)	<i>Macrovalvitrema sinaloense</i> , <i>Pseudohargisia cortesi</i> , <i>Pterinotrematoides mexicanum</i>
<i>Micropogonias undulatus</i> (Linnaeus, 1766)	<i>Cynoscionicola heteracantha</i> , <i>Macrovalvitrema micropogoni</i>
<i>Ophioscion scierus</i> (Jordan & Gilbert, 1884)	<i>Macrovalvitrema sinaloense</i> , <i>Pterinotrematoides mexicanum</i>
“ <i>Truchita</i> de la familia Sciaenidae”	<i>Mexicana bychowskyi</i>
<i>Umbrina coroides</i> Cuvier, 1830	<i>Cynoscionicola pseudoheteracantha</i> , <i>Rhamnocercus rhamnocercus</i>
<i>Umbrina roncadore</i> Jordan & Gilbert, 1882	<i>Cynoscionicola srivastavai</i> , <i>Macrovalvitrema sinaloense</i> , <i>Pterinotrematoides mexicanum</i>
<i>Umbrina xanti</i> Gill, 1862	<i>Cynoscionicola sciaenae</i> , <i>Cynoscionicola srivastavai</i> , <i>Euryhaliotrema sagmatum</i> , <i>Hargicotyle pacifica</i> , <i>Microcotylodes incisa</i> , <i>Pseudotagia</i> sp., <i>Rhamnocercus rhamnocercus</i>
<b>Scombridae</b>	
<i>Acanthocybium solandri</i> (Cuvier, 1832)	<i>Neothoracocotyle acanthocybii</i>
<i>Euthynnus lineatus</i> Kishinouye, 1920	<i>Neohexostoma euthynni</i>
<i>Sarda chilensis</i> (Cuvier 1832)	<i>Capsala gregalis</i> , <i>Grubea cochlear</i> , <i>Neohexostoma</i> sp., <i>Kuhnina</i> sp.
<i>Sarda orientalis</i> (Temminck & Schlegel, 1844)	<i>Capsala caballeroi</i>
<i>Scomber japonicus</i> Houttuyn, 1782	<i>Kuhnina scombercolias</i> , <i>Kuhnina scombri</i>
<i>Scomberomorus brasiliensis</i> Collette, Russo & Zavalla-Camin, 1978	<i>Mexicotyle mexicana</i>
<i>Scomberomorus cavalla</i> (Cuvier, 1829)	<i>Gotocotyla acanthura</i> , <i>Mexicotyle mexicana</i>
<i>Scomberomorus concolor</i> (Lockington, 1879)	<i>Mexicotyle mexicana</i> , <i>Scomberocotyle scomberomori</i> , <i>Thoracocotyle crocea</i>
<i>Scomberomorus maculatus</i> (Mitchill, 1815)	<i>Gotocotyla acanthura</i> , <i>Mexicotyle mexicana</i> , <i>Scomberocotyle scomberomori</i> , <i>Thoracocotyle crocea</i>
<i>Scomberomorus sierra</i> (Jordan & Starks, 1895)	<i>Gotocotyla acanthura</i> , <i>Mexicotyle mexicana</i> , <i>Scomberocotyle scomberomori</i> , <i>Thoracocotyle crocea</i>
<i>Scomberomorus</i> sp.	<i>Scomberocotyle scomberomori</i>
<i>Thunnus albacares</i> (Bonnaterre, 1788)	<i>Nasicola klawei</i>
<i>Thunnus orientalis</i> (Temminck & Schlegel, 1844)	<i>Capsala albsmithi</i> , <i>Capsala</i> sp., <i>Hexostoma albsmithi</i>
<b>Scorpaenidae</b>	
<i>Scorpaena guttata</i> Girard, 1854	<i>Benedenia</i> sp., <i>Trochopus sprostonae</i>
<b>Sebastidae</b>	
<i>Sebastes chlorostictus</i> (Jordan & Gilbert, 1880)	<i>Microcotyle sebastis</i>
<i>Sebastes constellatus</i> (Jordan & Gilbert, 1880)	<i>Microcotyle sebastis</i>
<i>Sebastes elongatus</i> Ayres, 1859	<i>Microcotyle sebastis</i>
<i>Sebastes helvomaculatus</i> Ayres, 1859	<i>Microcotyle</i> sp.
<i>Sebastes miniatus</i> (Jordan & Gilbert, 1880)	<i>Megalobenedenia derzhavini</i> , <i>Microcotyle sebastis</i>
<i>Sebastes rosaceus</i> Girard, 1854	<i>Microcotyle</i> sp.
<i>Sebastes rufus</i> (Eigenmann & Eigenmann, 1890)	<i>Microcotyle sebastis</i>
<i>Sebastes</i> sp.	<i>Microcotyle sebastis</i>
<i>Sebastes umbrosus</i> (Jordan & Gilbert, 1882)	<i>Microcotyle</i> sp.
<b>Serranidae</b>	
<i>Alphestes immaculatus</i> Breder, 1936	<i>Pseudorhabdosynochus guerreroensis</i>
<i>Alphestes multiguttatus</i> (Günther, 1867)	<i>Pseudorhabdosynochus guerreroensis</i>
<i>Epinephelus analogus</i> Gill, 1863	<i>Allobenedenia pseudomarginata</i> , <i>Benedenia jaliscana</i> , <i>Neobenedenia longiprostata</i> , <i>Pseudorhabdosynochus amplidiscatum</i>
<i>Epinephelus labriformis</i> (Jenyns, 1840)	<i>Allobenedenia pseudomarginata</i> , <i>Benedenia jaliscana</i> , <i>Diplectanum</i> sp., <i>Pseudorhabdosynochus amplidiscatum</i> , <i>Pseudorhabdosynochus anulus</i> , <i>Pseudorhabdosynochus fulgidus</i> , <i>Pseudorhabdosynochus spirani</i> , <i>Pseudorhabdosynochus tabogaensis</i>
<i>Epinephelus morio</i> (Valenciennes 1828)	<i>Parancylodiscoides macrobaculum</i> , <i>Pseudorhabdosynochus justinella</i> , <i>Pseudorhabdosynochus yucatanensis</i>

## APPENDIX 1. — Continuation.

Hosts	Parasites
<i>Hyphorthodus acanthistius</i> (Gilbert, 1892)	<i>Allobenedenia pseudomarginata</i> , <i>Pseudorhabdosynochus amplidiscatum</i>
<i>Mycteroperca bonaci</i> (Poey, 1860)	<i>Pseudorhabdosynochus capurroi</i> , <i>Pseudorhabdosynochus</i> sp.
<i>Mycteroperca jordani</i> (Jenkins & Evermann, 1889)	<i>Pseudobenedenia</i> sp., <i>Pseudorhabdosynochus amplidiscatum</i>
<i>Mycteroperca microlepis</i> (Goode & Bean, 1879)	<i>Parancylodiscoides macrobaculum</i>
<i>Mycteroperca olfax</i> (Jenyns, 1840)	<i>Neobenedenia isabellae</i>
<i>Mycteroperca rosacea</i> (Streets, 1877)	<i>Neobenedenia adenea</i> , <i>Neobenedenia melleni</i> , <i>Pseudobenedenia</i> sp., <i>Pseudorhabdosynochus amplidiscatum</i>
<i>Mycteroperca</i> sp.	<i>Neobenedenia adenea</i>
<i>Mycteroperca venenosa</i> (Linnaeus, 1758)	<i>Parancylodiscoides macrobaculum</i>
<i>Mycteroperca xenarcha</i> Jordan, 1888	<i>Pseudobenedenia</i> sp., <i>Pseudorhabdosynochus amplidiscatum</i>
<i>Paralabrax auroguttatus</i> Walford, 1936	<i>Allobenedenia pseudomarginata</i> , <i>Capsalidae</i> gen. sp., <i>Mamaeivicotyle villalobosi</i>
<i>Paralabrax clathratus</i> (Girard, 1854)	<i>Capsalidae</i> gen. sp., <i>Mamaeivicotyle villalobosi</i>
<i>Paralabrax loro</i> Walford, 1936	<i>Mamaeivicotyle villalobosi</i>
<i>Paralabrax maculatofasciatus</i> (Steindachner, 1868)	<i>Mamaeivicotyle villalobosi</i> , <i>Pseudorhabdosynochus amplidiscatum</i>
<i>Paralabrax nebulifer</i> (Girard, 1854)	<i>Allobenedenia pseudomarginata</i> , <i>Capsalidae</i> gen. sp., <i>Mamaeivicotyle villalobosi</i> , <i>Pseudorhabdosynochus amplidiscatum</i>
<i>Paranthias colonus</i> (Valenciennes, 1846)	<i>Pseudorhabdosynochus</i> sp.
<b>Sparidae</b>	
<i>Archosargus probatocephalus</i> (Walbaum, 1792)	<i>Ancyrocephalinae</i> gen. sp., <i>Euryhaliotrema amydrum</i> , <i>Euryhaliotrema dunlapae</i> , <i>Microcotyle archosargi</i> , <i>Pseudohaliothrema</i> sp., <i>Rhabdosynochus rhabdosynochus</i>
<i>Archosargus rhomboidalis</i> Linnaeus, 1758	<i>Ancyrocephalinae</i> gen. sp., <i>Microcotyle tampicensis</i>
<i>Calamus bajonado</i> (Bloch & Schneider, 1801)	<i>Haliotrematoides mediohamus</i> , <i>Haliotrematoides parvicirrus</i>
<i>Calamus brachysomus</i> (Lockington, 1880)	<i>Magniexcipula lamothei</i> , <i>Pseudochauhanea mexicana</i>
<i>Calamus calamus</i> (Valenciennes, 1830)	<i>Haliotrematoides mediohamus</i> , <i>Haliotrematoides parvicirrus</i>
<i>Lagodon rhomboides</i> (Linnaeus, 1766)	<i>Ancyrocephalinae</i> gen. sp., <i>Microcotylidae</i> gen. sp.
<b>Sphyraenidae</b>	
<i>Sphyraena argentea</i> Girard, 1854	<i>Paramonaxine yamagutii</i>
<i>Sphyraena barracuda</i> (Edwards, 1771)	<i>Cotyloatlantica pretiosa</i> , <i>Pseudochauhanea mexicana</i> , <i>Rhinecotyle deloyai</i>
<i>Sphyraena ensis</i> Jordan & Gilbert, 1882	<i>Paramonaxine yamagutii</i> , <i>Pseudochauhanea elongatus</i> , <i>Pseudochauhanea mexicana</i>
<i>Sphyraena guachancho</i> Cuvier, 1829	<i>Cotyloatlantica pretiosa</i>
<b>Stromateidae</b>	
<i>Peprilus burti</i> Fowler, 1944	<i>Pseudobicotylophora atlantica</i>
<i>Peprilus medius</i> (Peters 1869)	<i>Oaxacotyle oaxacensis</i>
<i>Peprilus simillimus</i> (Ayres 1860)	<i>Oaxacotyle oaxacensis</i>
<b>Synodontidae</b>	
<i>Synodus evermanni</i> Jordan & Bollman, 1890	<i>Neoheterobothrium mcdonaldi</i>
<i>Synodus foetens</i> (Linnaeus, 1766)	<i>Campechia synodi</i>
<i>Synodus luciocephalus</i> (Ayres 1855)	<i>Neoheterobothrium mcdonaldi</i>
<b>Tetraodontidae</b>	
<i>Sphoeroides annulatus</i> (Jenyns 1842)	<i>Heterobothrium ecuadori</i> , <i>Neobenedenia melleni</i>
<i>Sphoeroides testudineus</i> (Linnaeus 1758)	<i>Heterobothrium lamothei</i> , <i>Pseudempleurosoma carangis</i>
<b>Triglidae</b>	
<i>Prionotus stephanophrys</i> Lockington, 1881	<i>Orbocotyle elmeri</i>
<b>Unidentified hosts</b>	
“Cabrilla”	<i>Polymicrocotyle manteri</i>
“Flying fish”	<i>Axine yamaguti</i>
“Pampanito”	<i>Cemocotyle noveboracensis</i>
“Pargo UNAM”	<i>Cichlidogyrus dossoui</i> , <i>Cichlidogyrus sclerosus</i> , <i>Scutogyrus</i> sp.
“Unidentified spotted grouper-like fish”	<i>Neobenedenia isabellae</i>
<b>Class Amphibia</b>	
<b>Bufo</b>	
<i>Rhinella horribilis</i> (Wiegmann, 1833)	<i>Polystoma naevius</i> , <i>Riojatrema bravoae</i>
“ <i>Bufo simus</i> ” Schmidt 1857	<i>Riojatrema bravoae</i>
<b>Eleutherodactylidae</b>	
<i>Eleutherodactylus nitidus</i> (Peters, 1870)	<i>Riojatrema bravoae</i>
<b>Hylidae</b>	
<i>Smilisca baudinii</i> (Duméril & Bibron), 1841	<i>Polystoma naevius</i>
<i>Smilisca cyanosticta</i> (Smith, 1953)	<i>Polystoma naevius</i>
<i>Trachycephalus typhonius</i> (Linnaeus, 1758)	<i>Polystoma naevius</i>



## APPENDIX 1. — Continuation.

Hosts	Parasites
Scaphiropodidae	
<i>Scaphiopus couchii</i> Baird, 1854	<i>Pseudodiplorchis americanus</i>
<i>Spea hammondi</i> (Baird, 1859)	<i>Neodiplorchis scaphiopi</i>
<b>Class Sauropsida</b>	
Chelydridae	
<i>Chelydra rossignoni</i> (Bocourt, 1868)	<i>Neopolystoma domitilae</i>
Emydidae	
<i>Terrapene coahuila</i> Schmidt & Owens, 1844	<i>Polystomoides</i> sp.
<i>Terrapene ornata</i> (Agassiz, 1857)	<i>Neopolystoma domitilae</i>
<i>Trachemys scripta</i> (Schoepf, 1792)	<i>Neopolystoma domitilae</i> , <i>Neopolystoma orbiculare</i> , <i>Polystomoides coronatum</i>
Kinosternidae	
<i>Kinosternon hirtipes</i> Wagler 1830	<i>Polystomoidella oblonga</i> , <i>Polystomoidella whartoni</i>
<i>Kinosternon integrum</i> Le Conte, 1854	<i>Polystomoidella oblonga</i> , <i>Polystomoidella whartoni</i>
<i>Kinosternon leucostomum</i> (Duméril & Bibron, 1851)	<i>Neopolystoma orbiculare</i> , <i>Polystomoidella oblonga</i>
Trionychidae	
<i>Apalone spinifera</i> (Le Sueur, 1827)	<i>Polystomoides coronatum</i>

APPENDIX 2. — Geographic coordinates of the sampled sites for vertebrate hosts of monogeneans in Mexico. Abbreviations: **PC**, Pacific coast: marine or brackish; **AC**, Atlantic coast: marine or brackish; **F/T**, freshwater/terrestrial.

Distribution	PC	AC	F/T	Latitude	Longitude	Distribution	PC	AC	F/T	Latitude	Longitude
<b>Baja California</b>						<b>Isla Magdalena</b>	×			24°15'00"	111°30'00"
Bahía de Los Ángeles	×			28°54'31"	113°29'47"	Laguna Ojo de Liebre	×			27°51'21"	114°14'28"
Bahía de Santa Rosalita	×			28°31'50"	114°14'35"	La Paz	×			24°08'33"	110°19'50"
Bahía Las Ánimas	×			28°49'37"	113°19'59"	Las Barrancas	×			26°00'30"	112°12'17"
Bahía San Felipe	×			28°42'00"	112°35'00"	Las Tijeras (Bahía Magdalena)	×			25°20'00"	112°05'00"
Bahía San Francisquito	×			29°45'05"	114°18'36"	Localidad entre Punta Abrejos y San Juanico	×			26°27'45"	112°43'48"
Bahía de San Quintín	×			30°27'09"	115°56'54"	Oasis Corralitos		×		27°13'02"	112°59'17"
Ensenada	×			31°51'14"	116°37'45"	Oasis La Purísima		×		26°11'56"	112°04'47"
Isla Ángel de la Guarda	×			29°26'26"	113°34'25"	Oasis Poza Larga		×		27°16'26"	112°54'46"
Isla Coronado	×			26°10'09"	111°15'00"	Oasis San Ignacio		×		27°10'30"	112°52'03"
Isla Espíritu Santo	×			24°30'00"	110°19'18"	Oasis San José del Cabo		×		23°03'32"	109°41'28"
Isla Guadalupe	×			29°04'18"	118°20'55"	Punta Malcomb (Laguna San Ignacio)	×			26°45'20"	113°10'25"
Isla San Esteban	×			28°41'39"	112°31'30"	Punta San Francisquito	×			24°49'38"	110°35'30"
Localidad entre Isla Coronado y Bahía de San Quintín	×			31°15'46"	116°23'28"	San José del Cabo	×			23°04'49"	109°40'49"
Santa Rosalita	×			28°32'38"	114°14' 15"	Santa Rosalía	×			27°20'04"	112°15'35"
Puertecitos	×			30°20'59"	114°38'27"	Todos Santos	×			23°26'48"	110°13'40"
Punta Santo Tomás	×			31°33'44"	116°41'57"						
<b>Baja California Sur</b>						<b>Campeche</b>					
Bahía Almejas	×			24°31'00"	111°39'50"	Campeche	×			19°15'05"	90°34'45"
Bahía Coyote (Bahía Concepción)	×			26°43'12"	111°54'11"	Bahía de Campeche	×			19°55'05"	90°32'46"
Bahía de La Paz	×			24°14'30"	110°28'08"	Bancos de Campeche	×			19°53'03"	90°31'43"
Bahía de Santa Inés	×			27°02'55"	111°58'37"	Ciudad del Carmen	×			19°51'33"	90°31'35"
Boca de los Cardones (Laguna San Ignacio)	×			26°38'23"	113°04'13"	Estación El Viento	×			18°26'01"	91°49'48"
Cabo San Lucas	×			22°53'00"	109°54'12"	Estación Rancho II	×			18°20'30"	91°42'30"
Canal Cerralvo	×			24°15'02"	110°01'05"	Estuario Atasta	×			18°02'54"	91°54'15"
El Sargento	×			24°05'00"	109°59'03"	Estuario Champotón	×			19°20'56"	90°41'18"
Estanque Los Pinos	×			27°11'52"	113°00'10"	Golfo de Campeche	×			19°14'57"	91°31'21"
Isla del Carmen	×			26°47'09"	111°08'49"	Laguna de Términos	×			18°24'05"	91°46'40"
Isla Espíritu Santo	×			24°27'33"	110°23'21"	Laguna de Términos (Estación Santa Gertrudis)	×			18°21'22"	91°50'12"
Isla Espíritu Santo (El Candelero)	×			24°28'28"	110°22'48"	Laguna El Vapor	×			18°16'57"	91°56'21"
						Laguna La Pera	×			18°30'42"	91°52'22"

APPENDIX 2. — Continuation.

Distribution	PC	AC	F/T	Latitude	Longitude	Distribution	PC	AC	F/T	Latitude	Longitude
Laguna Palizada	×			18°38'00"	90°17'00"	Centro Acuicola			×	25°31'05"	101°23'17"
Laguna Silvituc	×			18°20'27"	91°54'45"	La Rosa					
Río Palizada (Área protegida de Flora y Fauna de la Laguna de Términos)			×	18°36'20"	89°25'31"	Charcos Prietos			×	26°54'35"	102°02'09"
Zoh Laguna			×	18°58'37"	89°41'20"	Cuatro Ciénagas			×	26°59'00"	102°05'15"
<b>Chiapas</b>						Laguna Intermedia			×	26°50'55"	102°08'36"
Angostura (Centro Acuicola Benito Juárez)			×	15°50'03"	92°21'00"	Manantial de Churince			×	26°50'25"	102°08'03"
Arroyo El Girasol			×	16°04'44"	91°39'16"	Manantial Maris			×	29°23'54"	101°01'49"
Arroyo José			×	16°06'50"	90°56'03"	Poza La Becerra			×	26°52'14"	102°00'50"
Arroyo Lagarto			×	16°08'14"	90°54'24"	Poza Playitas			×	26°54'34"	101°01'49"
Arroyo Miranda			×	16°08'08"	90°55'15"	Poza Tío Cándido			×	26°52'14"	102°04'42"
Cañada Tres Picos (Copainalá)			×	17°03'28"	93°11'51"	Presa Don Martín			×	27°31'09"	100°37'38"
Ejido Reforma Agraria (Marqués de Comillas)			×	16°13'11"	90°50'34"	Río Álamos			×	26°56'01"	108°57'20"
Embarcadero			×	16°06'38"	90°56'23"	Río Cañon			×	27°07'10.4"	101°41'27.9"
Lago Montebello			×	16°07'23"	91°40'28"	Río El Moral			×	28°53'54"	100°38'01"
Lago Paraíso (El Raizal)			×	17°47'20"	92°02'34"	Río en Celemania			×	27°02'40"	101°41'54"
Loma del Pato (La Angostura):			×	15°59'16"	92°29'45"	Río Salado			×	27°11'47.2"	101°14'14.9"
Ojo de Agua (El Canelar-La Frailesca)			×	16°32'08"	92°55'03"	<b>Colima</b>					
Presa La Angostura			×	16°04'45"	92°29'30"	Isla Clarión	×			18°20'10"	114°40'20"
Presa Chicoasén			×	16°56'03"	93°06'02"	Isla Socorro	×			18°43'00"	111°00'00"
Puente La Calzada			×	15°57'04"	91°39'46"	Islas Revillagigedo	×			18°20'00"	114°44'03"
Río Bonanza			×	15°21'59"	92°43'53"	Laguna de Amela	×			18°50'07"	103°45'55"
Río Cedros			×	16°59'52"	93°18'11"	Manzanillo	×			19°04'54"	104°19'31"
Río Chacamax			×	17°03'55"	92°09'08"	<b>Ciudad de México</b>					
Río Chajul			×	16°05'58"	90°57'30"	Ciudad de México			×	19°25'21"	102°19'15"
Río Danta			×	16°09'08"	90°54'06"	La Cantera Oriente (Reserva Ecológica del Pedregal de San Ángel)			×	19°19'03"	99°10'22"
Río en Rancho San Antonio (Chicoasén)			×	16°58'31"	93°03'45"	Lago de Chapultepec			×	19°25'21.1"	99°11'2.7"
Río Grijalva (Presa Nezahualcoyotl)			×	17°10'00"	93°36'35"	Lago de Xochimilco			×	19°15'34"	99°04'35"
Río Ixcán			×	16°07'17.5"	91°05'11.3"	<b>Durango</b>					
Río La Fortuna			×	15°12'14"	92°33'31"	Arroyo Los Berros			×	23°56'21"	104°16'27"
Río Lacanjá			×	16°46'21"	91°04'21"	Canal de Riego en el poblado de Dolores Hidalgo			×	25°15'59"	104°05'24"
Río Lancantún			×	16°09'96.6"	90°95'56.9"	Manantial Abraham González			×	24°12'45"	104°31'48"
Río Lacantún (Chajul)			×	16°06'03"	90°57'30"	Manantial El Toboso			×	24°16'29"	104°34'41"
Río Lacantún (El Remolino)			×	15°59'55"	92°36'03"	Ojo de Agua San Juan			×	23°57'11"	104°16'15"
Río Lacantún (La Reversa)			×	16°06'06"	91°00'18"	Plan de Ayala			×	23°54'41"	104°31'55"
Río Lagartero			×	16°07'18"	93°09'51"	Poza en el arroyo Torreones			×	25°22'19"	104°48'34"
Río Manzanares			×	16°10'14"	90°50'36"	Pozo San Fernando			×	25°30'34"	103°32'10"
Río Nandalumí (Chiapa de Corso)			×	16°43'18"	93°03'44"	Presa en el pueblo Amado Nervo			×	23°50'39"	104°10'37"
Río Palenque			×	17°12'57"	92°06'22"	Puente Lajas 1			×	24°51'46"	104°42'25"
Río Pando			×	16°12'46"	93°16'08"	Puente Lajas 2			×	24°51'41"	104°38'59"
Río Pedregal			×	15°55'01"	93°32'43"	Río Nazas			×	25°15'33"	103°54'44"
Río Puerto Rico			×	16°05'04"	91°01'11"	Río Nazas (poblado de azas)			×	25°12'57"	104°10'31"
Río San Pablo			×	16°06'10"	91°00'52"	Río Nazas (poblado de San Rafael Jicorica)			×	25°22'59"	104°45'54"
Río Suchiapa			×	16°36'36"	93°05'03"	Río Ramos (poblado El Olote)			×	25°53'38"	105°05'59"
Río Tzendales			×	16°17'11"	90°53'12"	Río Nazas (puente en la carretera Rodeo-Hidalgo de Parral, desviación a Abasolo)			×	25°18'39"	104°38'19"
Río Vado Ancho			×	15°14'47"	92°35'58"	Río Piaxtla (San Dimas)			×	24°21'59"	105°31'07"
<b>Coahuila</b>						<b>Estado de México</b>					
Anteojito San Juan			×	26°58'10"	102°07'14"	Arroyo Santiago			×	19°40'22"	99°42'28"
Arroyo Ejido Las Flores			×	27°02'42.2"	101°41'27.9"	Tiacaque					
Canal Ejido Las Flores			×	27°22'35.1"	101°41'29.9"	Atacomulco			×	19°47'50"	99°52'18"
Canal entre La Vega y El Venado			×	26°54'02"	101°55'09"	Bordo Cimmyt (Metepec)			×	19°13'55"	99°33'05"
						Bordo Parque Sierra Morelos (Toluca)			×	19°18'31"	99°41'18"

## APPENDIX 2. — Continuation.

Distribution	PC	AC	F/T	Latitude	Longitude	Distribution	PC	AC	F/T	Latitude	Longitude
Bordo San Pedro del Rosal (Atlatomulco)			x	19°46'36"	99°48'58"	<b>Jalisco</b>					
Capulhuac			x	19°26'47"	99°31'28"	Bahía de Banderas	x			20°45'26"	105°21'18"
Laguna de Chicnahuaapan			x	19°09'56"	99°30'13"	Bahía de Chamela	x			19°33'15"	105°06'45"
Laguna Salazar (Ocoyoacac)			x	19°18'34"	99°23'45"	Bajo La Hormiga (Bahía de Navidad)	x			19°14'00"	104°51'30"
Presa San Juanico (Acambay)			x	19°45'23"	99°47'10"	Balneario El Rincón (Teuchitlán)			x	20°41'37"	103°51'00"
Presa Trinidad Fabela			x	19°49'14"	99°47'11"	Cuzalapa			x	19°30'00"	104°17'00"
<b>Guanajuato</b>						Estero Chamela	x			19°31'45"	105°04'40"
El Fresno			x	20°16'39.07"	100°29'09.69"	Estero Pérula	x			19°35'26"	105°08'03"
Laguna de Yuriria			x	20°15'30"	101°06'25"	Lago de Chapala			x	20°17'34"	103°08'00"
Presa Ignacio Allende			x	20°53'19"	100°47'40"	Laguna El Jabalí	x			19°18'09"	104°54'43"
Rinconcillo Ignacio Allende			x	20°47'19.96"	100°48'19.11"	Arroyo el Durazno			x	19°30'32"	104°17'45"
Río La Laja			x	21°12'26"	100°55'20"	Manantial La Noria			x	20°35'45"	103°46'54"
Río La Laja (Atotonilco)			x	21°00'07"	100°47'58"	Manantial Ramón Simón			x	18°57'30"	103°10'00"
Río La Laja (Empalme Escobedo)			x	20°40'55"	100°45'06"	Presa Valle Juárez			x	19°56'42"	102°56'36"
Río La Laja (La Cieneguita)			x	20°57'08"	100°47'42"	Puerto Vallarta	x			20°35'48"	105°15'00"
Río La Laja (Presa Ignacio Allende)			x	20°55'40"	100°49'30"	Punta Pérula (Bahía de Chamela)	x			19°35'09"	105°07'54"
Río La Laja (Rincón de los Remedios)			x	20°47'20"	100°48'25"	Río Ayuquila (El Camichín)			x	19°38'29"	104°02'30"
Río La Laja (Soria La Huerta)			x	20°48'45"	100°49'07"	Río Ayuquila (El Grullo)			x	19°48'25"	104°13'33"
Río Lerdo			x	20°23'00"	101°10'05"	Río Puente La Rosa			x	19°53'03"	102°08'53"
Río Los Galvanes			x	21°03'01"	100°48'10"	Río San Nicolás (Laguna Chalacatepec)			x	19°39'45"	105°13'10"
<b>Guerrero</b>						<b>Michoacán</b>					
Acapulco	x			16°49'21"	99°52'55"	Araro			x	19°54'27.52"	100°50'23.36"
Cacahuamilpa			x	18°39'05"	99°30'01"	Lago de Cuitzeo			x	19°57'32"	101°34'31"
Cantiles de Mozimba (Acapulco)	x			16°51'04"	99°57'24"	Lago de Pátzcuaro			x	19°36'05"	101°39'13"
Chilpancingo			x	17°28'25"	99°37'15"	Lago de Zacapu			x	19°49'35"	101°47'10"
Laguna Chautengo	x			16°37'12"	99°07'12"	Lago de Zirahuén			x	19°26'37"	101°44'05"
Laguna de Coyuca	x			16°56'35"	100°00'32"	Manantial Chapultepec			x	19°34'20"	101°31'19"
Laguna de Tecomate	x			16°41'35"	99°19'52"	Manantial La Mintzita			x	18°38'40"	101°16'28"
Laguna de Tres Palos	x			16°47'47"	99°44'30"	Manantiales de Cointzio			x	19°36'42"	101°15'29"
Playa las Hamacas	x			16°51'10.80"	99°53'59.01"	Río Duero			x	19°59'10"	102°17'20"
Puente Río Papagayo			x	17°17'04"	99°35'33"	<b>Morelos</b>					
Río Cahoapan			x	17°16'38"	99°39'56"	Casasano			x	18°50'57"	98°57'50"
Río la Laca			x	17°14'09"	98°39'56"	Centro Acuícola Atlacomulco			x	18°54'04"	99°12'19"
Río Papagayo			x	17°13'48"	99°54'08"	Centro Acuícola Cuautitla			x	18°42'06"	99°22'22"
Río Tamarindo			x	17°00'37"	99°06'01"	Centro Acuícola El Jicarero (Río Ticumán)			x	18°46'30"	99°05'30"
Zihuatanejo	x			17°38'01"	101°33'00"	Centro Acuícola El Potrero			x	18°49'59"	98°59'25"
<b>Hidalgo</b>						Centro Acuícola El Rodeo			x	18°45'56"	99°20'04"
Arroyo Chontla (Chicayotla)			x	20°55'30"	98°34'36"	Centro Acuícola Zacatepec			x	18°39'01"	99°11'30"
Arroyo Tenango			x	20°43'18"	98°38'34"	Cerro del Tepozteco (Tepoztlán)			x	18°59'38"	99°07'00"
Centro Acuicola Tezontepec			x	20°11'11"	99°16'34"	Lago Tonatiahua (Lagunas de Zempoala)			x	19°03'21"	99°19'12"
Huiznopala			x	20°40'35"	98°50'13"	Amacuzac			x	18°38'47"	99°27'02"
Lago de Tecocomulco			x	19°52'12"	98°23'43"	Río Amacuzac (Las Planchas)			x	18°49'03"	99°30'14"
Laguna de Atezca			x	20°48'39"	98°45'00"	Río Cuautla (La Cuera-Tlayecac)			x	18°48'26"	98°57'00"
Malila (Río Conzintla)			x	20°44'2"	98°42'54"	<b>Nayarit</b>					
Río Atlapexco			x	21°00'53"	98°20'24"	Bahía de Banderas	x			20°45'26"	105°21'18"
Río Candelaria			x	21°04'59"	98°04'27"	Bahía de Matanchén	x			21°31'00"	105°14'55"
Río Metztlán			x	19°42'10"	98°50'20"	Cruz de Huanacastle	x			20°44'56"	105°22'54"
Río Moctezuma (Vega de Ramírez)			x	20°55'07"	99°24'53"						
San Pedro			x	20°51'00"	98°10'35"						
Río San Pedro (Orizatlán)			x	21°10'17"	98°35'17"						
Río Talol			x	21°10'00"	98°36'56"						
Tasquillo			x	20°33'28"	99°28'59"						



APPENDIX 2. — Continuation.

Distribution	PC	AC	F/T	Latitude	Longitude	Distribution	PC	AC	F/T	Latitude	Longitude
Isla Isabela	×			21°51'00"	105°53'15"	Río Tecolutla			×	20°10'13"	97°24'20"
Río Grande (Villa Hidalgo)			×	21°45'00"	105°16'25"	Tenampulco					
Río Santiago (Aguamilpa)			×	21°46'42"	104°55'36"	Querétaro					
San Blás	×			21°32'00"	105°17'22"	Arroyo Presa del Carmen			×	20°48'56"	100°17'46"
Nuevo León						Río El Carrizal			×	20°40'00"	100°10'00"
Centro Acuicola			×	27°26'04"	100°24'00"	Río Estórax			×	21°02'11"	99°50'45"
Salinillas						Río Las Zúñigas			×	20°19'13"	100°08'38"
Laguna de Salinillas			×	27°26'15"	100°23'00"	Río Oásis			×	21°00'27"	99°42'43"
Río Salinas (El Carmen)			×	25°56'48"	100°09'59"	San Miguel Tlaxcaltepec			×	20°06'23.34"	100°07'36.74"
Río Pesquería			×	25°46'50"	100°02'48"	Santiago Mezquitlán			×	20°04'37.01"	100°04'29.38"
Río San Juan			×	25°32'25"	99°50'16"	Quintana Roo					
Río Santa Catarina			×	25°34'57"	100°25'17"	Bacalar Chico		×		18°11'41"	81°51'15"
Presa Cerro Prieto			×	24°54'58"	100°22'40"	Bahía de Chetumal		×		18°30'10"	88°15'32"
Linares						Banco Chinchorro		×		18°33'07"	87°20'27"
Presa el Cuchillo			×	25°37'58"	99°19'09"	Bellavista		×		18°29'47"	88°17'01"
Solidaridad						Blanquizar		×		18°16'03"	87°54'12"
Presa Rodrigo Gómez			×	25°25'57"	100°08'40"	Cenote Azul (Bacalar)			×	18°38'50"	88°24'38"
La Boca						Cenote Azul (Puerto Aventuras)			×	20°27'53"	87°18'08"
Presa Sombrierillo			×	26°14'52"	99°58'11"	Cenote Cabañas			×	20°07'51"	87°27'57"
Oaxaca						Cenote Dos Bocas			×	17°54'38"	88°51'20"
Arroyo bajo el Puente			×	17°08'00"	97°54'13"	Cenote Escondido			×	20°11'57"	87°29'57"
Río San Marcos						Cenote Los Cuates			×	17°56'30"	88°53'00"
Arroyo San Juan			×	17°43'13"	96°18'46"	Chetumal III			×	18°29'49.91"	88°23'5.42"
Bautista						Chiquilá		×		21°27'00"	87°20'15"
Arroyo San Juan			×	17°54'30"	95°09'00"	El Paso de los Cedros (Cozumel)		×		20°31'00"	86°57'05"
Evangelista						Gran Cenote			×	20°14'44"	87°27'54"
Arroyo Santiago			×	17°41'16"	96°56'02"	Holbox		×		21°34'05"	86°14'32"
Dominguillo						Isla Contoy		×		20°48'25"	86°47'15"
Cañada Los Sabinos			×	16°25'40"	97°04'29"	Isla Cozumel		×		20°24'10"	86°55'40"
Cuyotepeji			×	17°57'35"	97°41'06"	Isla Mujeres		×		21°13'20"	86°44'30"
Laguna de Chila	×			15°53'40"	97°08'19"	Ixmapiut (Isla Contoy)		×		20°48'10"	86°47'05"
Matías Romero			×	16°52'01"	95°02'10"	Juan Sarabia			×	18°29'51.75"	88°88'22"
Río Petalcingo			×	18°04'35"	97°55'29"	La Aguada		×		18°15'12"	87°53'39"
Presa de Temascal			×	18°13'00"	96°25'00"	Laguna Guerrero		×		18°42'38"	88°14'26"
Puerto Ángel	×			15°39'35"	96°29'45"	Laguna Noh-Bek			×	19°06'29"	88°11'15"
Puerto Angelillo	×			15°51'15"	97°04'27"	Laguna Raudales			×	18°42'27"	88°15'22"
Puerto Escondido	×			15°51'12"	97°03'43"	Laguna Salada		×		18°49'09"	88°10'21"
Río Chicahuaxtla			×	17°03'30"	97°51'33"	Laguna Valle Hermoso			×	19°10'00"	88°31'00"
Río Chico (San Lorenzo Albarradas)			×	16°55'35"	96°12'27"	Laguna Yalahau		×		21°36'01"	88°09'00"
Río del Aguacate (Juquila)			×	16°07'19"	97°08'23"	Mahahual			×	18°58'17"	87°57'30"
Río Grande (Guelatao)			×	17°18'26"	96°30'38"	Nictechan		×		18°41'29"	88°02'41"
Río Grande (San José del Chilar)			×	17°46'06"	96°57'16"	Puerto Morelos		×		20°52'21"	86°49'05"
Río La Reforma			×	16°08'33"	97°08'42"	Punta Calera (Bahía de Chetumal)		×		18°42'27"	88°10'50"
Río Pichuaca			×	16°05'34"	97°24'18"	Punta Verde (Bahía de Chetumal)		×		18°43'50"	88°09'56"
Río Pueblo Viejo			×	16°06'22"	97°03'48"	Ramonal (Bahía de Chetumal)		×		18°29'58"	88°05'12"
Río San Antonio			×	18°08'12"	97°07'45"	Rancho Don Milo			×	18°37'43"	88°01'15"
Nanahuatipán						Río Hondo			×	18°17'00"	88°38'00"
Río San José de las Flores			×	16°24'21"	97°44'23"	Río Hondo (Ramonal)			×	18°25'20"	88°31'35"
Río Santa Cruz Flores			×	16°21'06"	97°45'38"	Xcalak		×		18°19'32"	87°44'49"
Magón						San Luis Potosí					
Río Santa María			×	15°50'14"	96°19'31"	Arroyo Canoas			×	21°55'41"	99°30'41"
Huatulco						Arroyo Tamasopo			×	21°55'48"	99°22'33"
Salina Cruz	×			16°10'22"	95°11'45"	Primera Cascada			×	21°55'10"	99°30'34"
San Juan Bautista (Tuxtepec)			×	18°05'00"	96°07'47"	Canoas					
Santa María			×	17°56'47"	97°01'42"	Río Santa María (Fracción Sánchez)			×	21°47'10"	100°41'13"
Tecomavaca						Sinaloa					
Tangola Tangola	×			15°40'00"	96°12'00"	Bahía de Ohuira		×		25°39'20"	108°58'07"
Tuxtepec			×	18°04'38"	96°07'47"	Bahía de Topolobampo		×		25°33'56"	109°06'33"
Puebla											
Canal Calipán			×	18°17'45"	97°09'50"						

## APPENDIX 2. — Continuation.

Distribution	PC	AC	F/T	Latitude	Longitude	Distribution	PC	AC	F/T	Latitude	Longitude
Culiacán			×	24°48'39"	107°23'40"	Centro Acuícola Santo Tomas Abasolo			×	24°02'29"	98°22'10"
Estero Teacapán	×			22°32'40"	105°44'03"	Laguna Madre (Punta Piedra)		×		24°29'18"	97°44'24"
Estero Urias	×			23°10'35"	106°21'23"	Presa Falcón			×	26°35'00"	99°12'35"
Laguna el Caimanero	×			22°50'00"	105°55'00"	La Loba			×	24°21'00"	98°37'01"
Mazatlán	×			23°14'03"	106°27'40"	Presa María Soto La Marina			×	24°24'00"	98°59'00"
Mazatlán (Cerritos)	×			23°18'44"	106°29'37"	Presa Vicente Guerrero			×	23°58'15"	98°45'10"
Mazatlán Isla de la Piedra	×			23°11'10.15"	106°24'47.95"	Río Soto La Marina			×	23°46'52"	98°12'25"
Mazatlán La Puntilla	×			23°11'14.31"	106°25'3.79"	Río Tamesí			×	22°21'02"	97°59'24"
Teacapán	×			22°31'25"	105°43'15"						
<b>Sonora</b>						<b>Veracruz</b>					
Bahía Cholla	×			31°20'00"	113°36'45"	Acuario de Veracruz		×		19°11'13"	96°07'20"
Bahía de Guaymas	×			27°54'45"	110°52'41"	Arrecife El Cabezo		×		19°04'11"	94°48'15"
Bahía de San Carlos	×			27°56'36"	111°03'44"	Arrecife Anegada de Afuera		×		19°10'14"	95°52'14"
Bahía Kino	×			28°48'30"	111°57'05"	Arrecife Isla de Enmedio		×		19°16'00"	95°56'19"
Centro Acuícola Esperanza			×	27°35'15"	109°50'10"	Arrecife Santiaguillo		×		19°14'09"	95°08'04"
Cuenca de Guaymas	×			27°59'42"	111°00'27"	Arroyo Balzapote			×	18°36'35"	95°05'02"
Puerto Peñasco	×			31°18'33"	113°31'30"	Arroyo Balzapote (Los Tuxtlas)			×	18°40'46"	95°10'28"
<b>Tabasco</b>						Casitas		×		20°15'11"	96°97'52"
Arroyo Sones (Teapa)			×	17°30'31"	92°57'50"	Centro Acuícola en Medellín			×	19°03'31"	96°09'38"
Carretera Villahermosa-Teapa, Km. 25			×	17°44'21"	92°55'23"	Centro Acuícola en Nautla			×	20°06'32"	96°47'15"
Centro Acuícola del Municipio de Centro			×	17°59'15"	92°56'10"	El Conchal		×		19°05'03"	96°06'50"
Centro Acuícola Municipal (Río Carrizal)			×	17°58'23"	93°01'31"	El Saladero		×		21°25'22"	97°32'38"
Centro Acuícola Teapa			×	17°32'43"	92°57'42"	Estación de Biología Los Tuxtlas			×	18°37'17"	95°05'35"
División Académica de Ciencias Agropecuarias (Centro)			×	17°59'46"	92°47'31"	Lago de Catemaco			×	18°24'16"	95°04'52"
Tenosique (El Recreo)			×	17°29'35"	91°27'15"	Laguna de Alvarado		×		18°47'05"	95°49'35"
Estanque Tuca			×	18°10'40"	92°56'01"	Laguna de Sontecomapan		×		18°31'18"	95°01'37"
Gania de Pucté (Municipio de Chablé)			×	17°44'27"	91°46'26"	Laguna de Tamiahua		×		21°30'34"	97°27'59"
Lago Yumká			×	17°59'33"	92°57'02"	Laguna Escondida		×		18°35'39"	95°05'15"
Laguna Chiribital			×	17°59'24"	93°04'22"	Laguna La Mancha		×		19°34'45"	96°22'56"
Laguna de las Ilusiones			×	17°59'46"	92°56'17"	Manatíal Apazapán			×	19°19'00"	96°43'00"
Laguna El Espino			×	18°14'49"	95°50'00"	Playa Las Barrancas (Alvarado)		×		18°50'7.65"	96°01'13.5"
Laguna El Rosario			×	17°50'34"	93°49'43"	Playa Jicacal		×		18°33'24"	94°59'20"
Laguna El Yucateco			×	18°11'33"	94°00'35"	Potrero Viejo		×		18°52'35"	96°50'26"
Laguna Emiliano Zapata			×	17°44'32"	91°46'30"	Rancho El Clarín		×		20°02'07.01"	97°06'22.70"
Laguna Loncho			×	18°05'17"	92°22'37"	Tlapacoya			×	18°24'24"	97°00'52"
Laguna Paraíso			×	18°24'02"	93°12'04"	Rancho Tizapán (Arroyo Seco)			×	19°11'42"	96°07'07"
Laguna Santa Anita			×	18°22'05"	92°52'00"	Puerto de Veracruz		×		20°01'34"	97°09'41"
Pantanos de Centla			×	18°17'15"	92°30'15"	Río Bobos (Filipinas)			×	18°20'37"	95°03'05"
Río Jonuta			×	18°05'14"	92°08'25"	Río Frío			×	19°11'49"	97°03'23"
Río Muerto (Tacotalpa)			×	17°36'01"	92°48'42"	Río Huitzilapan (Río Tilapa)			×	19°24'29"	97°00'49"
Río Paraíso			×	18°25'35"	93°12'00"	Río La Antigua (Agua Bendita)			×	19°19'31.49"	96°43'31.57"
Río Puyacatengo			×	17°31'45"	92°55'51"	Río La Antigua (Apazapan)			×	18°33'21"	95°02'59"
Río Puyacatengo (Teapa)			×	17°32'50"	92°55'47"	Río La Palma		×		18°36'43"	95°06'10"
Río San Pedro			×	17°26'47"	91°08'17"	Río Mondongo (Los Naranjos)		×		20°55'48"	97°40'00"
Río Teapa			×	17°32'39"	92°57'04"	Río Pantepec		×		18°36'28"	95°39'06"
Río Usumacinta (Tenosique)			×	17°28'32"	91°25'47"	Río Papaloapan (Tlacotalpan)			×	19°31'22"	96°58'58"
Tenosique (Boca del Cerro)			×	17°26'58"	91°29'25"	Río Pixquiac (Xalapa)			×	18°32'44"	95°37'35"
<b>Tamaulipas</b>						Río San Juan Bautista (Tlacotalpan)			×	19°24'11"	97°02'31"
Centro Acuícola Vicente Guerrero			×	24°03'30"	98°22'40"	San Miguel (Avestruces)					
Ciudad Madero		×		22°17'43"	97°49'10"						

APPENDIX 2. — Continuation.

Distribution	PC	AC	F/T	Latitude	Longitude	Distribution	PC	AC	F/T	Latitude	Longitude
Tlacotalpan			×	18°37'00"	95°39'06"	Cenote Xcangachén			×	20°36'43"	89°05'32"
Tuxpan		×		20°57'02"	97°24'31"	Cenote Xrmucuy			×	20°33'46"	88°59'50"
<b>Yucatán</b>						Chicxulub		×		21°17'11"	89°35'23"
Aguada Santa Elena			×	20°54'30"	87°45'32"	Chelém		×		21°15'47"	89°44'28"
Arrecife Alacranes		×		22°22'41"	89°30'58"	Chuburná		×		21°15'32"	89°48'31"
Cantera inundada			×	21°17'23"	89°39'02"	CINVESTAV-Mérida			×	21°01'24"	89°37'36"
Mitza						Dzilam de Bravo		×		21°23'34"	88°52'51"
Celestún		×		20°51'20"	90°20'11"	Estuario Celestún		×		20°52'15"	90°22'07"
Cenote Chaamac			×	20°51'53"	90°09'18"	Granja Ixoye (Dzilam de Bravo)		×		21°23'42"	88°53'10"
Cenote Dzaptún			×	20°51'19"	90°14'09"	Lago San Antonio			×	20°34'00"	89°29'00"
Cenote Dzibilchaltún			×	21°05'46"	89°36'24"	Laguna Chelém		×		21°16'05"	89°43'17"
Cenote Dzonot			×	20°22'36"	88°49'59"	Laguna de Celestún		×		20°56'04"	90°56'04"
Cervera						Ojo de agua en la Laguna Celestún		×		20°49'23"	90°24'25"
Cenote Homún			×	20°44'33"	89°17'11"	Progreso		×		21°17'19"	89°40'03"
Cenote Hubiku			×	20°49'19"	88°01'21"	Puerto de Celestún		×		20°51'33"	90°24'16"
Cenote Hunucmá			×	21°01'35"	89°53'54"	Ría Celestún		×		20°52'15"	90°22'07"
Cenote Ixin-há			×	20°37'14"	89°06'40"	Ría Lagartos		×		21°36'08"	88°08'51"
Cenote Noc-choncunchey			×	20°48'35"	90°11'48"	Sisal		×		21°08'00"	90°05'00"
Cenote Petentuche (= Ría Lagartos)			×	21°33'00"	88°04'44"	Telchac Puerto		×		21°20'41"	89°14'43"
Cenote San Gerardo			×	20°03'59"	89°41'30"	<b>Zacatecas</b>					
Cenote Scan Yui			×	20°40'20"	88°32'51"	Laguna El Mortero			×	24°20'48"	102°56'47"
Cenote Tixkanka			×	21°14'55"	88°58'45"						